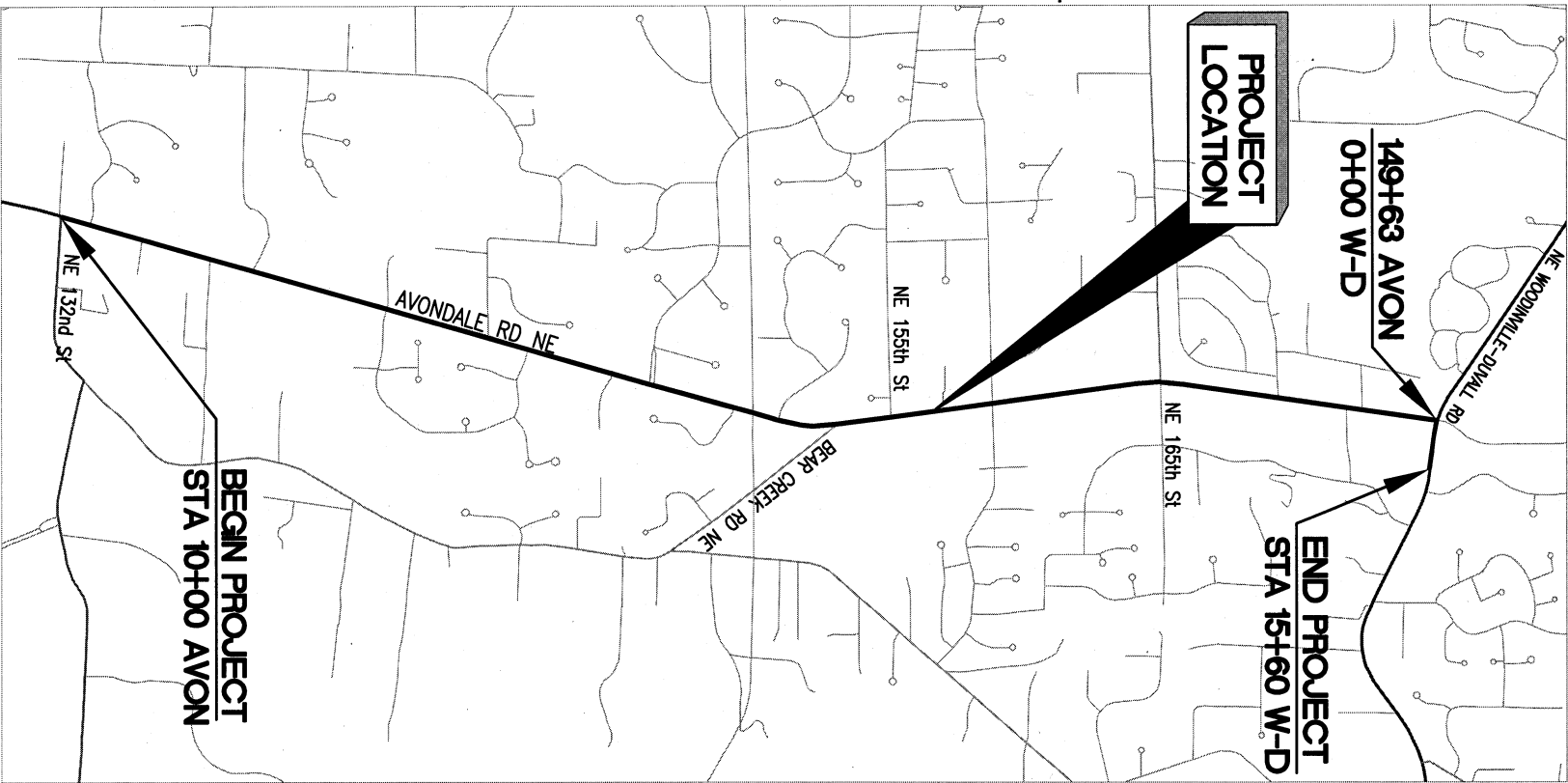


VICINITY MAP



King County

Department Of
Transportation
Road Services Division

AVONDALE ITS, PHASE II
NE 132ND ST TO NE WOODINVILLE-DUVALL RD

DRAWING INDEX

DESCRIPTION	SHEET	DESCRIPTION	SHEET
COVER SHEET	1	DETAIL – WAVETRONIX SITES AND MOUNTING	31
LEGEND / SUMMARY OF QUANTITIES	2	DETAIL – DYNAMIC MESSAGE SIGN	32–34
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CORRIDOR PLANS	4–22	DETAIL – FIBER COMMUNICATIONS CABINET	37
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CALL 2 WORKING
DAYS BEFORE YOU DIG
1–800–424–5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

KING COUNTY DEPT. OF TRANSPORTATION

HAROLD TANIGUCHI, DIRECTOR
AVONDALE ITS, PHASE II
(NE 132ND ST TO NE WOODINVILLE-DUVALL RD)

COVER SHEET

FIELD BOOK:	
SURVEYED:	
SURVEY BASE MAP:	T. LEE 4/2013
DESIGN ENTERED:	J. HUH 4/2013
DESIGNED	A. McMANUS 4/2013
CHECKED:	M.C. MITCHELL 4/2013
SUPERVISOR:	N.M.
REVISION	BY DATE

FED. AID No. CM-2085(005)

PROJECT No. 1115114
SURVEY No. N/A

MAINTENANCE DIVISION No. 1



SHEET 1 OF 37
King County SHEETS

318-35 (1)

LEGEND

LINETYPES

DESCRIPTION

BUILDING LINE (EXISTING)
CURB/PAVEMENT/SIDEWALK (EX)
GUARDRAIL (EXISTING)
STREAM BUFFER
RETAINING WALL (EXISTING)
ROCK FACING (EXISTING)
WETLAND BUFFER

SURVEY:

WSDOT LIMITED ACCESS
STATE/COUNTY/CORPORATE LIMIT
RIGHT-OF-WAY
UNDERGROUND CONDUIT NEW
UNDERGROUND CONDUIT EXISTING
DIRECTIONAL BORING
AERIAL CABLE

ABBREVIATIONS

CT FIBER COUNT
SMFO SINGLE MODE FIBER OPTIC CABLE
FTC FIBER TERMINATION CABINET
TSC TRAFFIC SIGNAL CONTROLLER
CCC CAMERA CONTROL CABLE
FOPP FIBER OPTIC PRETERMINATED PANEL CABLE

GAS/POWER/TELEPHONE/WATER

SYMBOL DESCRIPTION

EXIST. NEW

POWER VAULT

UTILITY POLE

UTILITY POLE ANCHOR

GENERAL NOTES

- 1 WHEN EXISTING JUNCTION BOXES ARE REPLACED, OR CONDUITS ARE ADJUSTED IN EXISTING BOXES, THE CONTRACTOR SHALL REMOVE ALL SOIL AND DEBRIS IN AND AROUND THE BOX AND RESTORE A GRAVEL PAD UNDER THE JUNCTION BOX AS SHOWN IN THE WSDOT STANDARD PLAN J-40.10-00.
- 2 WHEN NEW FIBER OR COPPER CABLE IS PULLED THROUGH EXISTING JUNCTION BOXES, THE CONTRACTOR SHALL REMOVE ALL SOIL AND DEBRIS AS NEEDED TO MEET THE MINIMUM BEND RADIUS FOR FIBER AND COPPER CABLES.
- 3 WHEN NEW CABLES ARE PULLED THROUGH EXISTING AND NEW JUNCTION BOXES, THE CONTRACTOR SHALL PROPERLY GROUND THE NEW AND EXISTING JUNCTION BOXES AND VAULTS WHERE CURRENT-CARRYING CONDUCTORS ARE PRESENT.
- 4 THE CONTRACTOR SHALL FURNISH TRAFFIC CONTROL PLANS TO ENGINEER FOR APPROVAL FOR ALL WORK. APPROVAL IS REQUIRED PRIOR TO STARTING WORK.
- 5 IF AN EXISTING PULL TAPE OR ROPE IS USED FOR INSTALLATION OF NEW CABLEING, A NEW PULL TAPE SHALL BE INSTALLED TO REPLACE THE EXISTING TAPE OR ROPE. THE NEW TAPE SHALL BE AS DESCRIBED IN THE SPECIFICATIONS.
- 6 CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF CONCRETE SIDEWALK AND ROADWAY SURFACE IF DAMAGED OR REMOVED. REPLACE ANY REMOVED OR DAMAGED SIDEWALK TO THE NEAREST JOINT OR REPLACE ASPHALT SHOULDER PER STANDARD SPECIFICATIONS.
- 7 CONTRACTOR SHALL FURNISH ALL NEW ITEMS TO BE INSTALLED.

SIGNAL

EXISTING

NEW

TYPE 1 LOCKING LID JUNCTION BOX
TYPE 2 JUNCTION BOX
TYPE 3 JUNCTION BOX
TYPE 2 LOCKING LID JUNCTION BOX
TYPE 8 LOCKING LID JUNCTION BOX
ELECTRICAL SERVICE CABINET
FIBER OPTIC COMMUNICATIONS CABINET
SIGNAL CABINET
CCTV CAMERA

FIBER PULL BOX
POLE MOUNTED CABINET
DYNAMIC MESSAGE SIGN
MASTARM

UNINTERRUPTIBLE POWER SUPPLY
PIPS CAMERA SYSTEM
WAVETRONIX SENSOR SYSTEM
WIRE NOTE
CONSTRUCTION NOTE
AERIAL SPLICE BOX


SUMMARY OF QUANTITIES

ITEM NO.	TOTAL QUANTITY	UNIT	STD ITEM NO.	ITEM	PROJECT QUANTITY	AS-BUILT
				PREPARATION		
1	LS	LS	0001	MOBILIZATION	LS	
				EROSION CONTROL AND LANDSCAPING		
2	\$7,000	EST	6490	EROSION/WATER POLLUTION CONTROL	\$7,000	
				TRAFFIC		
3	LS	LS		INTERCONNECTION SYSTEM COMPLETE	LS	
4	LS	LS		CCTV SYSTEM COMPLETE	LS	
5	LS	LS		DMS SYSTEM COMPLETE	LS	
6	LS	LS		AUTOMATED TRAVEL TIME SYSTEM COMPLETE	LS	
7	350	LF		TRENCHING	350	
8	5,000	LF	6917	DIRECTIONAL BORING	5,000	
9	7	EA		TYPE 2 JUNCTION BOX	7	
10	2	EA		TYPE 8 JUNCTION BOX	2	
11	16	EA		FIBER PULL BOX	16	
12	LS	LS	6871	PROJECT TEMPORARY TRAFFIC CONTROL	LS	
13	50	HR	6979	UNIFORMED POLICE OFFICER-TRAFFIC CONTROL	50	
				OTHER ITEMS		
14	300	SF		ASPHALT CONCRETE SHOULDER REPLACEMENT	300	
15	30	SF		CEMENT CONCRETE SIDEWALK REPLACEMENT	30	
16	\$10,000	CALC	7728	MINOR CHANGE	\$10,000	
17	LS	LS	7736	SPCC PLAN	LS	

FED. AID No. CM-2085(005)

PROJECT No. 1115114
SURVEY No. N/A


MAINTENANCE DIVISION No. 1



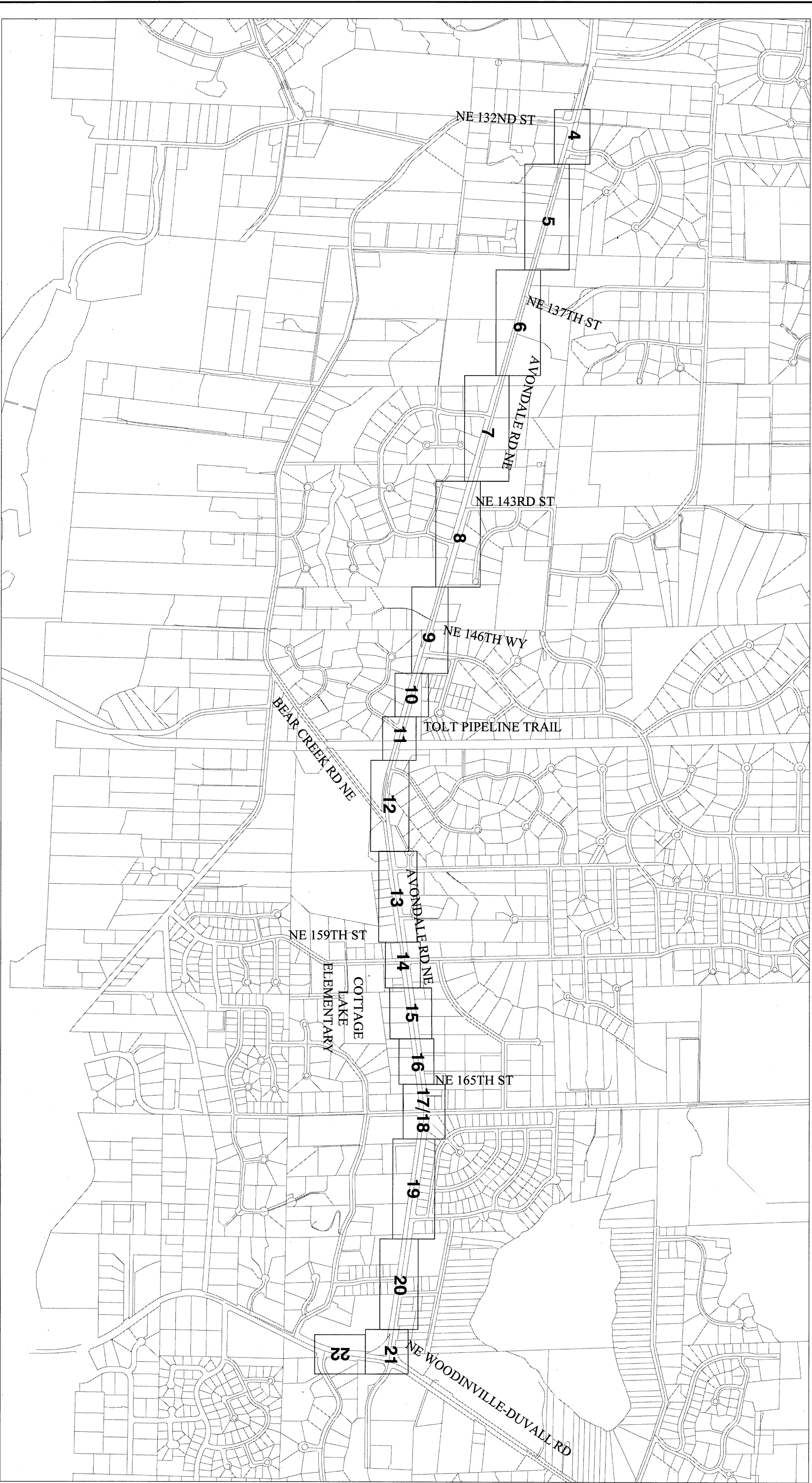
KING COUNTY DEPT. OF TRANSPORTATION
HAROLD TANIGUCHI, DIRECTOR
AVONDALE ITS, PHASE II
(NE 132ND ST TO NE WOODINVILLE-DUVALL RD)

LEGEND/ SUMMARY OF QUANTITIES

CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5555

 SHEET **2** OF **37** SHEETS

811
Know what's below.
Call before you dig.
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)



THESE PLANS ARE NOT
SURVEY PRECISE. VERIFY
DIMENSIONS IN FIELD



CALL 2 WORKING
DAYS BEFORE YOU DIG
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(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

KING COUNTY DEPT. OF TRANSPORTATION

HAROLD TANIGUCHI, DIRECTOR

AVONDALE ITS, PHASE II

(NE 132ND ST TO NE WOODINVILLE-DUVAL RD)

SHEET LAYOUT

FIELD BOOK:

SURVEYED:

SURVEY BASE MAP:

DESIGN ENTERED:

CHECKED:

SUPERVISOR:

N.M.

FED. AID No. CM-2085(005)

PROJECT No. 1115114

SURVEY No. N/A

MAINTENANCE DIVISION No. 1

DATE

BY

SHEET

3

OF

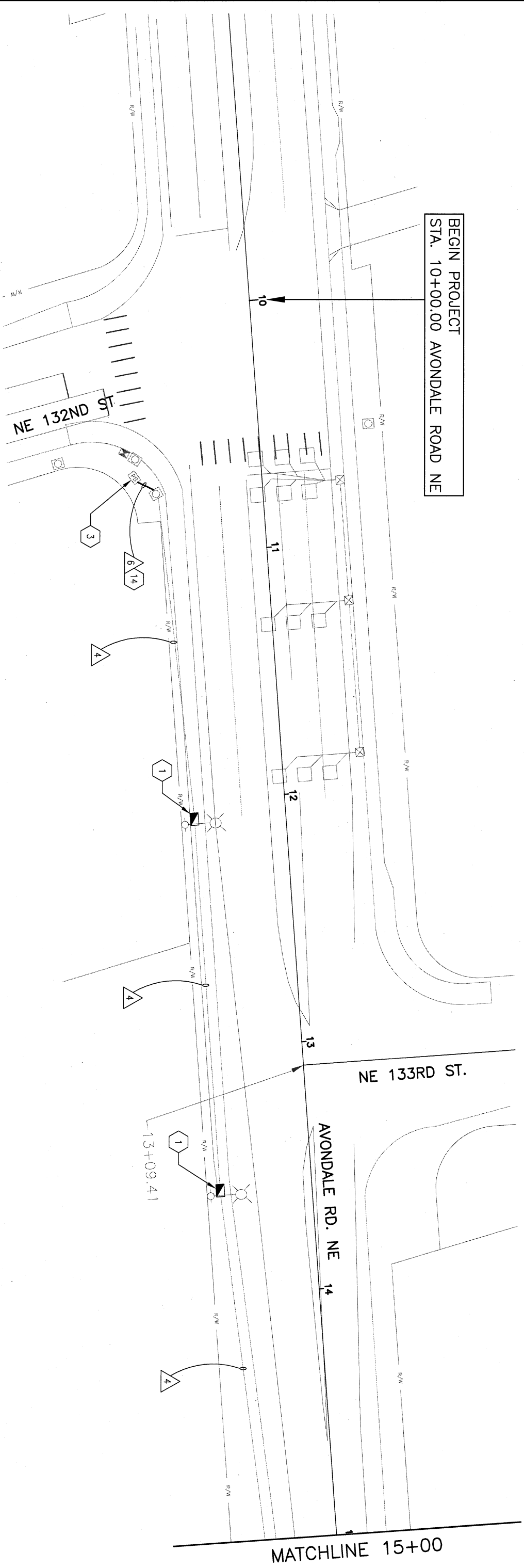
37

SHEETS

King County

318-35 (3)

BEGIN PROJECT
STA. 10+00.00 AVONDALE ROAD NE



WIRING SCHEDULE

CONDUIT #	CONDUIT SIZE	48 SM/FO NEW	# 8 EXISTING
4	2" EX	1	3
6	NEW 2"	1	

CONSTRUCTION NOTES:

- 1 REPLACE EXISTING TYPE 1 JUNCTION BOX WITH NEW TYPE 1 JUNCTION BOX WITH LOCKING STEEL LID ACCORDING TO MSDOT STANDARD PLAN 1-40-10-02.
- 3 SPLICE NEW 48 SHRO WITH EXISTING 48 SHRO IN EXISTING SPLICE ENCLOSURE. SEE SHEETS 23-27 FOR FIBER SPLICE DETAIL. COIL SPARE FIBER OPTIC CABLE IN PULL BOX AS SHOWN ON DETAIL SHEET 36 AND ACCORDING TO QUANTITIES SHOWN ON SHEET 23.
- 14 TRENCH AND INSTALL NEW CONDUIT AND WIRING PER WIRING SCHEDULE. ADJUST ROUTING OF CONDUIT TO AVOID UTILITIES. RESTORE AREA BACK TO PRECONSTRUCTION CONDITION. MATCH GRADE OF SURFACE FINISH. TRENCH IS TO FILLED WITHIN 24 HOURS OF EXCAVATION. SEE TRENCHING DETAIL ON SHEET 35.

THESE PLANS ARE NOT
SURVEY PRECISE. VERIFY
DIMENSIONS IN FIELD



**Know what's below.
Call before you dig**

**CALL 2 WORKING
DAYS BEFORE YOU DIG
1-800-424-5555**

FIELD BOOK: _____	_____	_____	FED. AID No. <u>CM-2085(005)</u>
_____	_____	_____	_____

SURVEY BASE MAP. _____ T 1 E 4 S 4 W

DESIGN ENERGED: _____

DESIGNED:
DRAWN:
CHECKED:
A. McMANUS 4/2013

SUPERVISOR: M.C. MITCHELL 4/2013

FED. AID No. CM-2085(005)

PROJECT No. 1115114
SURVEY No. N/A

MAINTENANCE DIVISION No. 1

KING COUNTY DEPT. OF TRANSPORTATION
HAROLD TANGUCHI, DIRECTOR
AVONDALE ITS, PHASE II
(NE 132ND ST TO NE WOODVILLE-DUVALL RD)



SHEET
4
OF
37
SHEETS

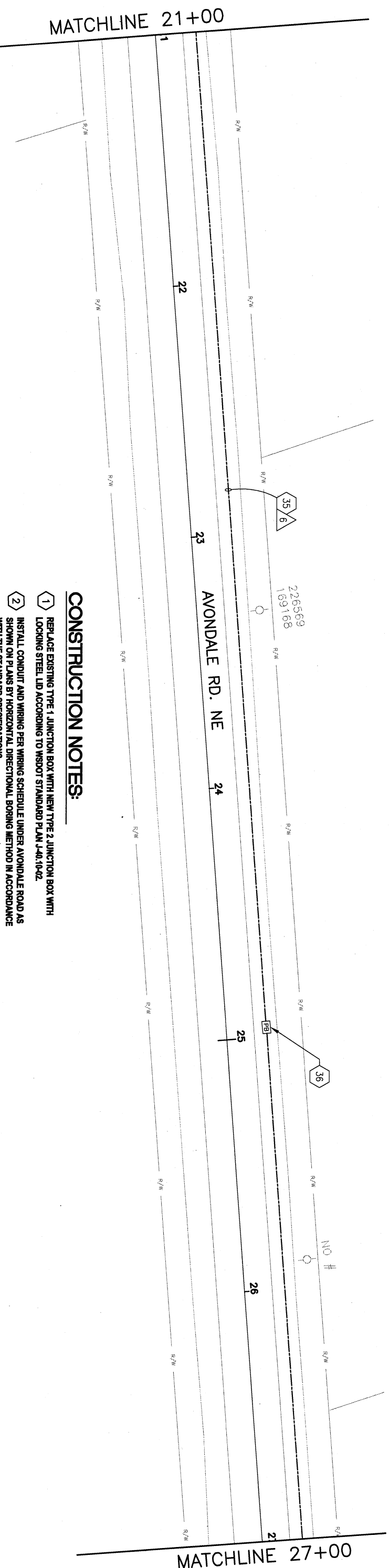
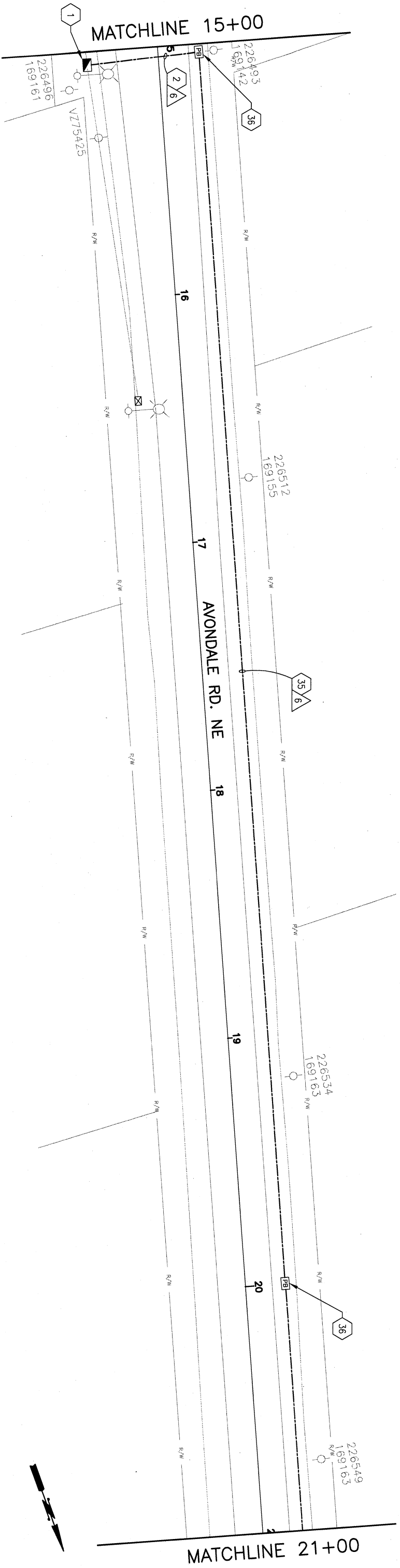
SUPERVISOR:	M:O. MITCHELL	7/2010
NUM.		

NUM.

REVISION

By

DATE _____



△ WIRING SCHEDULE		
CONDUIT #	CONDUIT SIZE	48 SMFO NEW
6	NEW 2"	1

1. REPLACE EXISTING TYPE 1 JUNCTION BOX WITH NEW TYPE 2 JUNCTION BOX WITH LOCKING STEEL LID ACCORDING TO WSDOT STANDARD PLAN J-40-10-02.
2. INSTALL CONDUIT AND WIRING PER WIRING SCHEDULE UNDER AVOIDANCE ROAD AS SHOWN ON PLANS BY HORIZONTAL, DIRECTIONAL, BORING METHOD IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
35. INSTALL CONDUIT AND WIRING PER WIRING SCHEDULE UNDER AVOIDANCE ROAD SHOULDERS AS SHOWN ON PLANS BY HORIZONTAL, DIRECTIONAL, BORING METHOD IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
36. INSTALL PULL BOX WITH HEAVY DUTY STEEL LID ACCORDING TO WSDOT STANDARD PLANS J-40-10-01. FINAL LOCATION TO BE APPROVED BY ENGINEER. MATCH GRADE AND SURFACE FINISH. INSTALL NEW CONDUIT AND WIRING AS SHOWN ON PLANS. COIL ADDITIONAL 50 FEET OF SPARE FIBER OPTIC CABLE IN PULL BOX AS SHOWN ON SHEET 35.

THESE PLANS ARE NOT
SURVEY PRECISE. VERIFY
DIMENSIONS IN FIELD



**Know what's below.
Call before you dig**

**CALL 2 WORKING
DAYS BEFORE YOU DIG
1-800-424-5555**

Test	Black Segment (Feet)	White Segment (Feet)
1000 ft	0 to 10	10 to 20
2000 ft	0 to 20	20 to 40

KING COUNTY DEPT. OF TRANSPORTATION

HAROLD TANIGUCHI, DIRECTOR

AVONDALE ITS, PHASE II

(NE 132ND ST TO NE WOODINVILLE--DUVALL RD)

CORRIDOR PLANS



King County

SHEETS

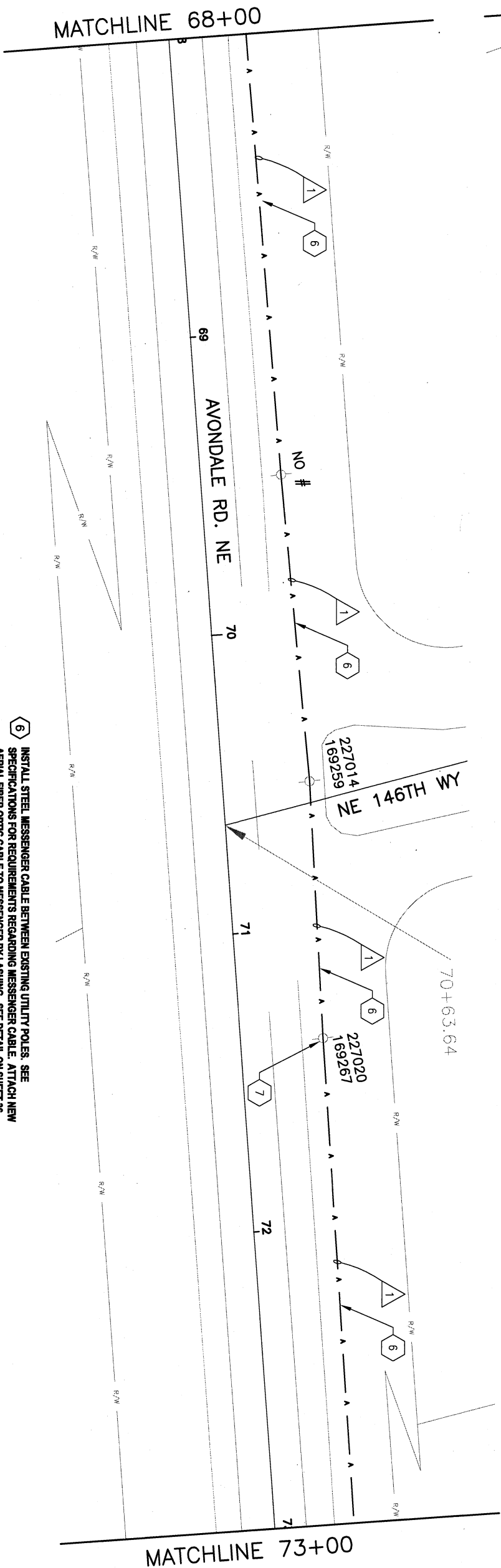
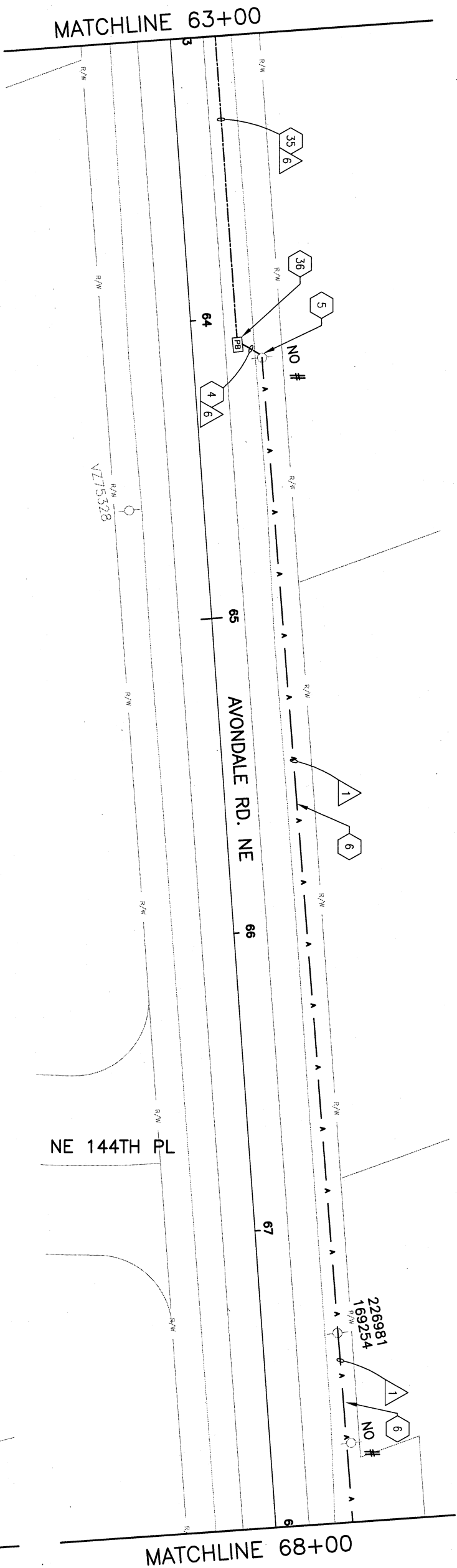
FIELD BOOK: _____
 SURRENDERED: _____
 SURVEY BASE MAP: _____
 DESIGN ENTERED: _____
 DESIGNED: _____
 CHECKED: _____
 SUPERVISOR: _____

T. LEE 4/2013
 J. HUH 4/2013
 A. McMANUS 4/2013
 M.C. MITCHELL 4/2013

[illegible]

FED. AID No. CM-2085(005)
PROJECT No. 1115114
SURVEY No. N/A
MAINTENANCE DIVISION No. 1





WIRING SCHEDULE			
CONDUIT #	CONDUIT SIZE	48 SMFO NEW	
1	AERIAL	1	
6	NEW 2"	1	

CONSTRUCTION NOTES:

- 5 TRENCH AND INSTALL NEW CONDUIT AND WIRING PER WIRING SCHEDULE BETWEEN NEW PULL BOX AND CONDUIT RISER ON UTILITY POLE. ADJUST ROUTING OF CONDUIT TO AVOID UTILITIES. RESTORE AREA BACK TO PRECONSTRUCTION CONDITION. MATCH GRADE OF SURFACE FINISH. TRENCH IS TO BE FILLED WITHIN 24 HOURS OF EXCAVATION. SEE TRENCHING DETAIL ON SHEET 35.
- 4 CONTRACTOR SHALL INSTALL 2-INCH CONDUIT RISER ON THE EXISTING UTILITY POLE. SUPPORT THE CONDUIT USING CONDUIT STANDOFF BRACKET. COORDINATE WITH PUGET SOUND ENERGY AS TO THE HEIGHT OF THE CONDUIT. SEE DETAIL SHEET 36.

- 6 INSTALL STEEL MESSENGER CABLE BETWEEN EXISTING UTILITY POLES. SEE SPECIFICATIONS FOR REQUIREMENTS REGARDING MESSENGER CABLE. ATTACH NEW AERIAL FIBER OPTIC CABLE TO MESSENGER BY LASHING. SEE DETAIL ON SHEET 36.
- 7 PROVIDE 100-FEET OF SURPLUS CABLE COILED AND FASTENED TO AERIAL SLACK
- 35 INSTALL CONDUIT AND WIRING PER WIRING SCHEDULE UNDER AVONDALE ROAD SHOULDER AS SHOWN ON PLANS BY HORIZONTAL DIRECTIONAL BORING METHOD IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
- 36 INSTALL PULL BOX WITH HEAVY DUTY STEEL LID ACCORDING TO WSDOT STANDARD PLANS J-901(6-01). FINAL LOCATION TO BE APPROVED BY ENGINEER. MATCH GRADE AND SURFACE FINISH. INSTALL NEW CONDUIT AND WIRING AS SHOWN ON PLANS. COIL ADDITIONAL 50 FEET OF SPARE FIBER OPTIC CABLE IN PULL BOX AS SHOWN ON SHEET 35.

THESE PLANS ARE NOT
SURVEY PRECISE. VERIFY
DIMENSIONS IN FIELD



CALL 2 WORKING
DAYS BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

FIELD BOOK: _____

SURVEYED: _____

SURVEY BASE MAP: _____ T. LEE 4/2013

DESIGN ENTERED: _____ J. HUH 4/2013

CHECKED: _____ A. McMANUS 4/2013

SUPERVISOR: _____ M.C. MITCHELL 4/2013

NUM. _____

REVISION _____

BY _____ DATE _____

FED. AID No. _____ CM-2085(005)

PROJECT No. _____ 1115114

SURVEY No. _____ N/A

MAINTENANCE DIVISION No. _____ 1



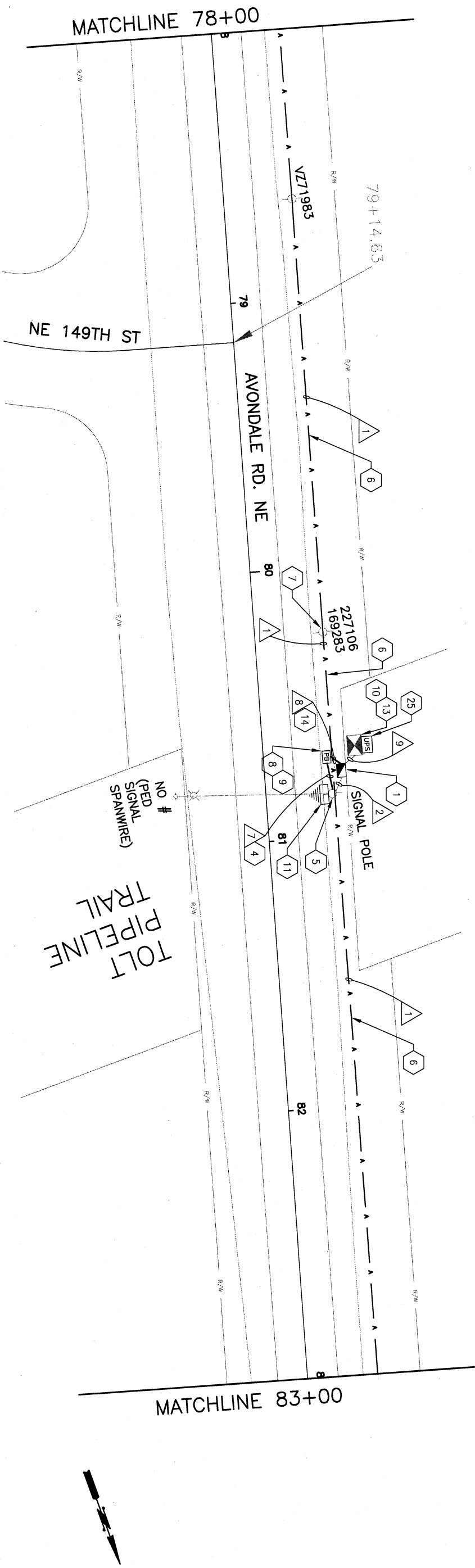
KING COUNTY DEPT. OF TRANSPORTATION
HAROLD TANIGUCHI, DIRECTOR
AVONDALE ITS, PHASE II
(NE 132ND ST TO NE WOODVILLE-DUVAL RD)

CORRIDOR PLANS



SHEET
9
OF
37
SHEETS

318-35 (9)



CONSTRUCTION NOTES:

- 1

REPLACE EXISTING TYPE 1 JUNCTION BOX WITH NEW TYPE 2 JUNCTION BOX WITH LOCKING STEEL LID ACCORDING TO WSDOT STANDARD PLAN J-40.10-02.
- 2

TRENCH AND INSTALL NEW CONDUIT AND WIRING PER WIRING SCHEDULE BETWEEN NEW PULL BOX AND CONDUIT RISER ON UTILITY POLE. ADJUST ROUTING OF CONDUIT TO AVOID UTILITIES. RESTORE AREA BACK TO PRECONSTRUCTION CONDITION. MATCH GRADE OF SURFACE FINISH. TRENCH IS TO BE FILLED WITHIN 24 HOURS OF EXCAVATION. SEE TRENCHING DETAIL ON SHEET 35.
- 3

CONTRACTOR SHALL INSTALL 2-INCH CONDUIT RISER ON THE EXISTING UTILITY POLE. SUPPORT THE CONDUIT USING CONDUIT STANDOFF BRACKET. COORDINATE WITH PUGET SOUND ENERGY AS TO THE HEIGHT OF THE CONDUIT. SEE DETAIL SHEET 36.
- 4

INSTALL STEEL MESSENGER CABLE BETWEEN EXISTING UTILITY POLES. SEE SPECIFICATIONS FOR REQUIREMENTS REGARDING MESSENGER CABLE. ATTACH NEW AERIAL FIBER OPTIC CABLE TO MESSENGER BY LASHING. SEE DETAIL ON SHEET 36.
- 5

PROVIDE 100-FEET OF SURPLUS CABLE COILED AND FASTENED TO AERIAL SLACK STORAGE RACK (SHOWSHOES). SEE DETAIL ON SHEET 36.
- 6

INSTALL PULL BOX WITH LIGHT DUTY STEEL LID ACCORDING TO WSDOT STANDARD PLANS J-40.10-01. FINAL LOCATION TO BE APPROVED BY ENGINEER. MATCH GRADE AND SURFACE FINISH. INSTALL NEW CONDUIT AND WIRING AS SHOWN ON PLANS.
- 7

INSTALL FIBER SPLICE ENCLOSURE IN PULL BOX IN ACCORDANCE WITH THE SPECIFICATIONS. INSTALL NEW WIRING AND SPLICE FIBER AS SHOWN ON PLANS AND DETAIL SHEETS 24-27. COIL SPARE FIBER OPTIC CABLE IN PULL BOX AS SHOWN IN THE DETAIL ON SHEET 35 AND ACCORDING TO THE QUANTITIES SHOWN ON SHEET 23.
- 8

INSTALL WAVETRONIX CONTROLLER IN EXISTING SIGNAL CONTROL CABINET.
- 9

INSTALL NEW WAVETRONIX SENSOR DETECTOR ON EXISTING POLE. SEE DETAIL SHEET 31. LOCATION SHALL BE APPROVED BY ENGINEER.
- 10

INSTALL NEW SIGNAL CONTROLLER AND 12 PORT PATCH PANEL IN EXISTING CABINET.
- 11

TRENCH AND INSTALL NEW CONDUIT AND WIRING PER WIRING SCHEDULE. ADJUST ROUTING OF CONDUIT TO AVOID UTILITIES. RESTORE AREA BACK TO PRECONSTRUCTION CONDITION. MATCH GRADE OF SURFACE FINISH. TRENCH IS TO BE FILLED WITHIN 24 HOURS OF EXCAVATION. SEE TRENCHING DETAIL ON SHEET 35.
- 12

INSTALL AN UNINTERRUPTIBLE POWER SUPPLY (UPS) ON THE CABINET AS SHOWN ON THE PLANS ACCORDING TO SPECIAL PROVISIONS.

WIRING SCHEDULE

CONDUIT #	CONDUIT SIZE	12 SMFO NEW	48 SMFO NEW	WAVETRONIX POWER	WAVETRONIX COMM
1	AERIAL		1		
2	2" EX			2-#1, 1-#16	
7	NEW 2"		2		1
8	NEW 2"	1			1
9	2" EX	1		2-#1, 1-#16	1

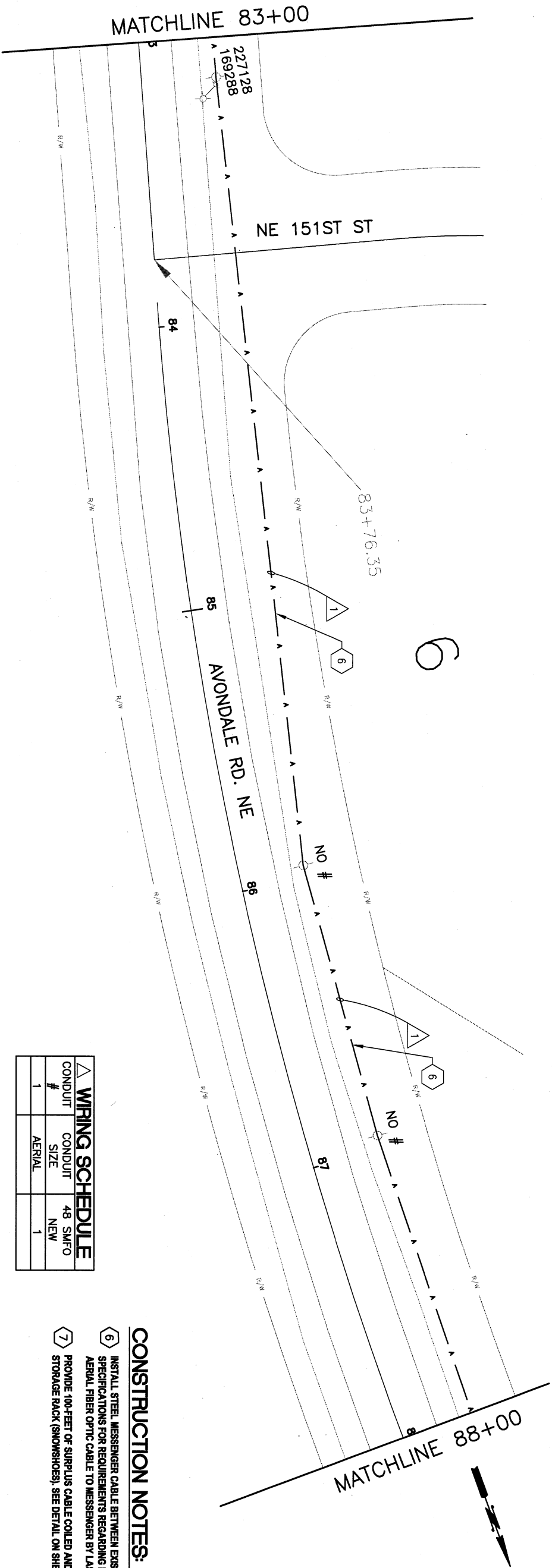
THESE PLANS ARE NOT
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DIMENSIONS IN FIELD



CALL 2 WORKING
DAYS BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)



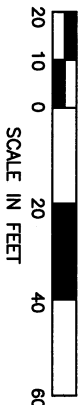
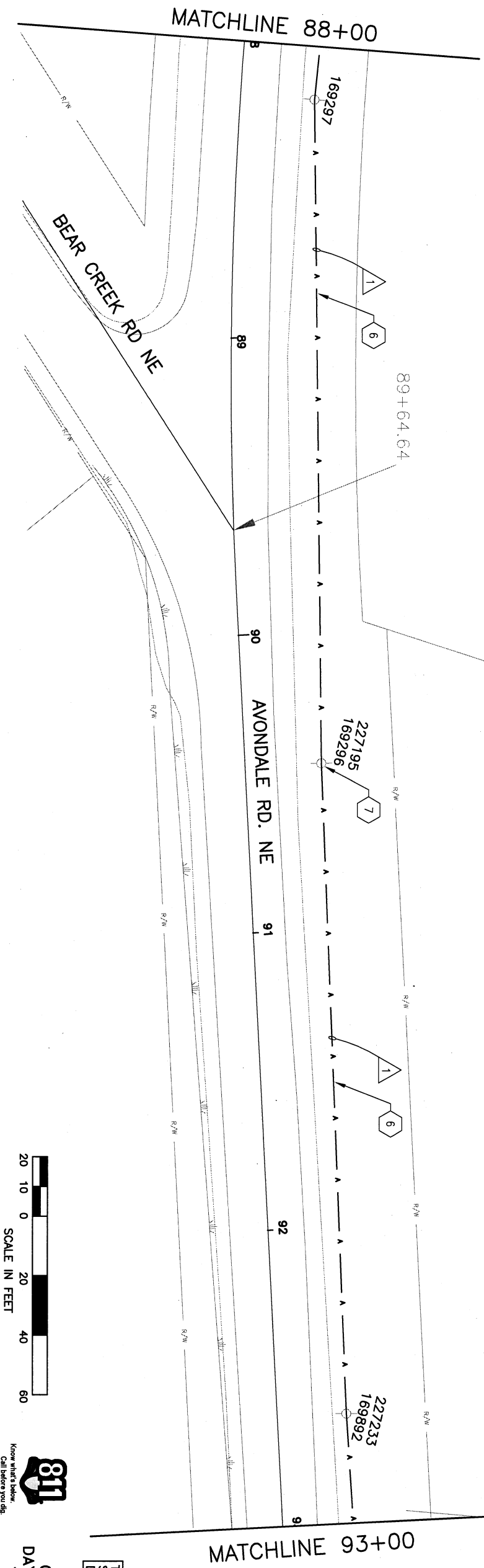
FIELD BOOK:		FED. AID NO.:	CM-2085(005)		KING COUNTY DEPT. OF TRANSPORTATION HAROLD TANIGUCHI, DIRECTOR AVONDALE ITS, PHASE II (NE 132ND ST TO NE WOODINVILLE-DUVAL RD) CORRIDOR PLANS	 SHEET 11 OF 37 King County SHEETS 318-35 (11)
SURVEYED:		PROJECT NO.:	1115114			
SURVEY BASE MAP:	T. LEE 4/2013	SURVEY NO.:	N/A			
DESIGN ENTERED:	J. HUH 4/2013					
CHECKED:	A. McMANUS 4/2013					
SUPERVISOR:	M.C. MITCHELL 4/2013	MAINTENANCE DIVISION NO.:	1			
NUM.	REVISION	BY	DATE			



WIRING SCHEDULE		
CONDUIT #	CONDUIT SIZE	48 SMFO NEW
1	AERIAL	1

CONSTRUCTION NOTES:

- 6 INSTALL STEEL MESSENGER CABLE BETWEEN EXISTING UTILITY POLES. SEE SPECIFICATIONS FOR REQUIREMENTS REGARDING MESSENGER CABLE. ATTACH NEW AERIAL FIBER OPTIC CABLE TO MESSENGER BY LASHING. SEE DETAIL ON SHEET 36.
- 7 PROVIDE 100-FEET OF SURPLUS CABLE COILED AND FASTENED TO AERIAL SLACK STORAGE RACK (SNOWSHOES). SEE DETAIL ON SHEET 36.



CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

THESE PLANS ARE NOT
SURVEY PRECISE. VERIFY
DIMENSIONS IN FIELD

FIELD BOOK: _____
SURVEYED: _____
SURVEY BASE MAP: _____
DESIGN ENTERED: _____
CHECKED: _____
SUPERVISOR: _____

T. LEE 4/2013
J. HUH 4/2013
A. MCMAHUS 4/2013
M.C. MITCHELL 4/2013

NUM. _____
BR _____
DATE _____
REVISION _____

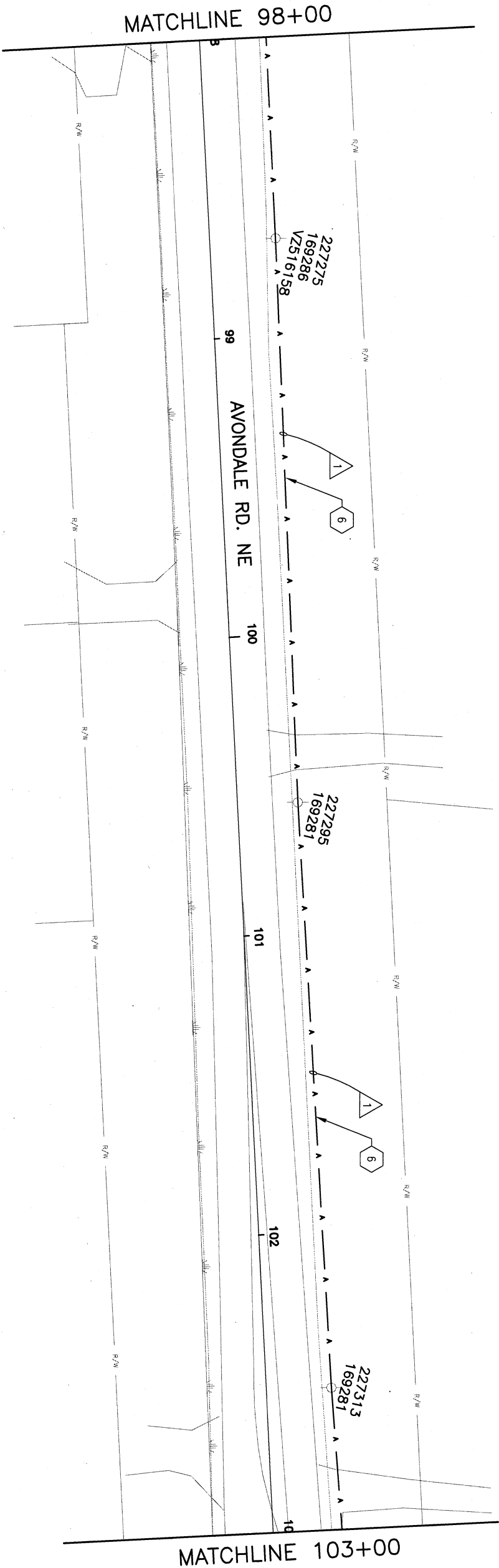
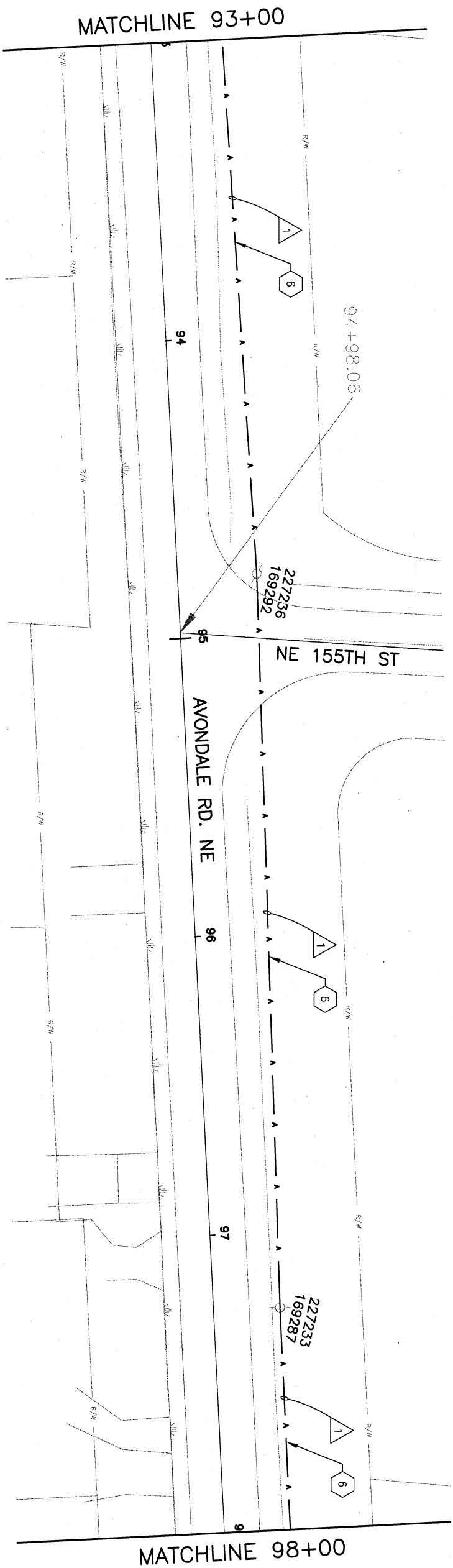
FED. AID No. _____
PROJECT No. _____
SURVEY No. _____
MAINTENANCE DIVISION No. _____

CM-2085(005)
1115114
N/A
1



KING COUNTY DEPT. OF TRANSPORTATION
HAROLD TANIGUCHI, DIRECTOR
AVONDALE ITS, PHASE II
(NE 132ND ST TO NE WOODVILLE-DUVAL RD)
CORRIDOR PLANS

King County
SHEETS
318-35 (12)



WIRING SCHEDULE			
CONDUIT #	CONDUIT SIZE	48 SMFO NEW	
1	AERIAL	1	

CONSTRUCTION NOTES:

- 6 INSTALL STEEL MESSENGER CABLE BETWEEN EXISTING UTILITY POLES. SEE SPECIFICATIONS FOR REQUIREMENTS REGARDING MESSENGER CABLE. ATTACH NEW AERIAL FIBER OPTIC CABLE TO MESSENGER BY LASHING. SEE DETAIL ON SHEET 38.

THESE PLANS ARE NOT
SURVEY PRECISE. VERIFY
DIMENSIONS IN FIELD

811
Know what's below.
Call before you dig.
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

20 10 0 20 40 60
SCALE IN FEET

CALL 2 WORKING
DAYS BEFORE YOU DIG
1-800-424-5555

KING COUNTY DEPT. OF TRANSPORTATION

HAROLD TANIGUCHI, DIRECTOR
AVONDALE ITS, PHASE II
(NE 132ND ST TO NE WOODINVILLE-DUVALL RD)

CORRIDOR PLANS

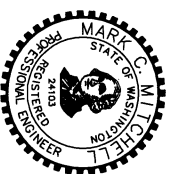
King County
SHEETS

FIELD BOOK:			
SURVEYED:			
SURVEY BASE MAP:	T. LEE 4/2013		
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SUPERVISOR:	M.C. MITCHELL 4/2013		
NUM.	REVISION	BY	DATE

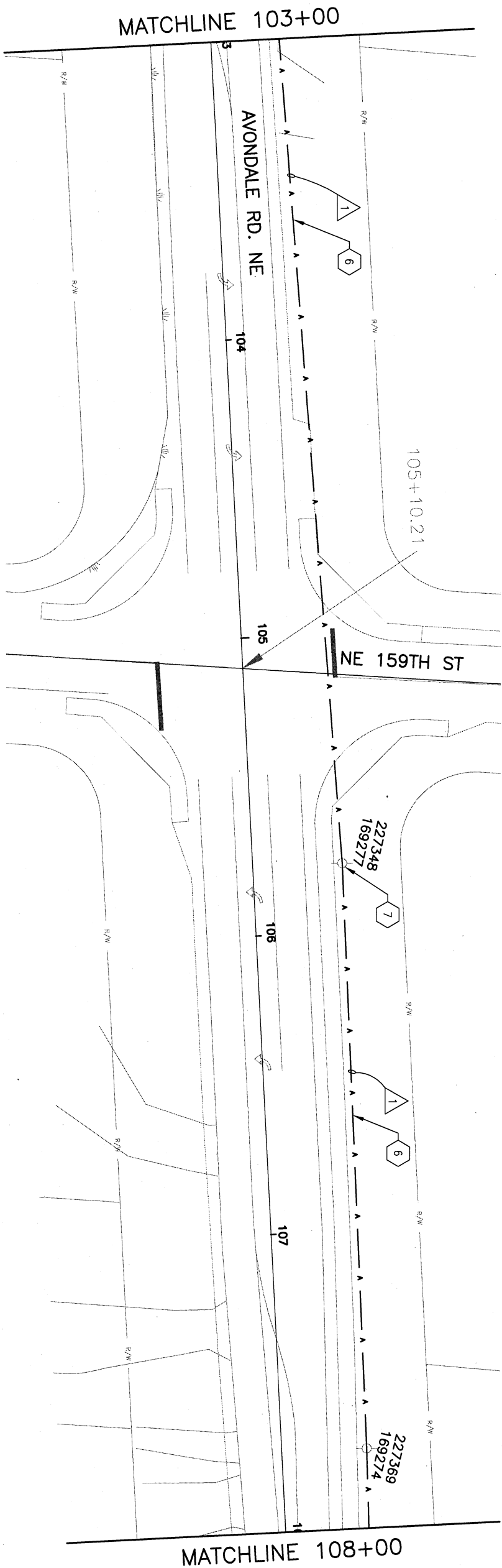
FED. AID No. CM-2085(005)

PROJECT No. 1115114
SURVEY No. N/A

MAINTENANCE DIVISION No. 1



13
OF
37
SHEETS
318-35 (13)





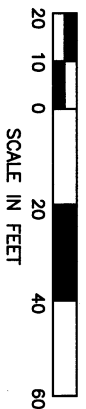
△ WIRING SCHEDULE


CONDUIT #	CONDUIT SIZE	48 SMFO NEW
1	AERIAL	1

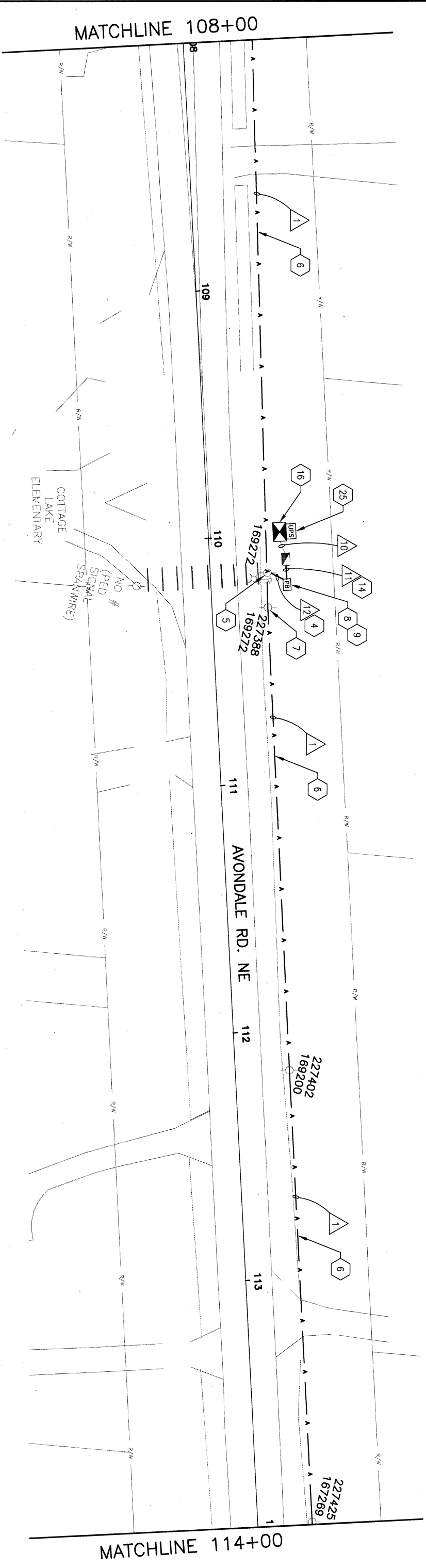
CONSTRUCTION NOTES:

- 6 INSTALL STEEL MESSENGER CABLE BETWEEN EXISTING UTILITY POLES. SEE SPECIFICATIONS FOR REQUIREMENTS REGARDING MESSENGER CABLE. ATTACH NEW AERIAL FIBER OPTIC CABLE TO MESSENGER BY LASHING. SEE DETAIL ON SHEET 36.
- 7 PROVIDE 100-FEET OF SURPLUS CABLE COILED AND FASTENED TO AERIAL SLACK STORAGE RACK (SNOWSHOES). SEE DETAIL ON SHEET 36.

FIELD BOOK: _____	_____	_____	_____	_____	_____	FED. AID No. <u>CM-2085(005)</u>		KING COUNTY DEPT. OF TRANSPORTATION HAROLD TANIGUCHI, DIRECTOR AVONDALE ITS, PHASE II (NE 132ND ST TO NE WOODINVILLE-DUVAL RD) CORRIDOR PLANS	 SHEET 14 OF 37 SHEETS
SURVEYED: _____	_____	_____	_____	_____	_____	PROJECT No. <u>1115114</u>			
SURVEY BASE MAP: _____	T. LEE 4/2013	_____	_____	_____	_____	SURVEY No. <u>N/A</u>			
DESIGN ENTERED: _____	J. HUIH 4/2013	_____	_____	_____	_____	MAINTENANCE DIVISION No. <u>1</u>			
CHECKED: _____	A. McMANUS 4/2013	_____	_____	_____	_____	_____	_____	_____	_____
SUPERVISOR: _____	M.C. MITCHELL 4/2013	NUM.	BY	DATE	REVISION	_____	_____	_____	_____




Know what's below.
Call before you dig.
CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)



CONSTRUCTION NOTES:

- 4 TRENCH AND INSTALL NEW CONDUIT AND WIRING PER WIRING SCHEDULE BETWEEN NEW PULL BOX AND CONDUIT RISER ON UTILITY POLE. ADJUST ROUTING OF CONDUIT TO AVOID UTILITIES. RESTORE AREA BACK TO PRECONSTRUCTION CONDITION. MATCH GRADE OF SURFACE FINISH. TRENCH IS TO BE FILLED WITHIN 24 HOURS OF EXCAVATION. SEE TRENCHING DETAIL ON SHEET 35.
- 5 CONTRACTOR SHALL INSTALL 2-INCH CONDUIT RISER ON THE EXISTING UTILITY POLE. SUPPORT THE CONDUIT USING CONDUIT STANDOFF BRACKET. COORDINATE WITH PUGET SOUND ENERGY AS TO THE HEIGHT OF THE CONDUIT. SEE DETAIL SHEET 36.
- 6 INSTALL STEEL MESSENGER CABLE BETWEEN EXISTING UTILITY POLES. SEE SPECIFICATIONS FOR REQUIREMENTS REGARDING MESSENGER CABLE. ATTACH NEW AERIAL FIBER OPTIC CABLE TO MESSENGER BY LASHING. SEE DETAIL ON SHEET 36.
- 7 PROVIDE 100-FEET OF SURPLUS CABLE COILED AND FASTENED TO AERIAL SLACK STORAGE RACK (SNOWSHOES). SEE DETAIL ON SHEET 36.
- 8 INSTALL PULL BOX WITH LIGHT DUTY STEEL LID ACCORDING TO WSDOT STANDARD PLANS J-90.10-01. FINAL LOCATION TO BE APPROVED BY ENGINEER. MATCH GRADE AND SURFACE FINISH. INSTALL NEW CONDUIT AND WIRING AS SHOWN ON PLANS.
- 9 INSTALL FIBER SPLICE ENCLOSURE IN PULL BOX IN ACCORDANCE WITH THE SPECIFICATIONS. INSTALL NEW WIRING AND SPLICE FIBER AS SHOWN ON PLANS AND ON DETAIL SHEETS 24-27. COIL SLACK FIBER CABLE IN PULL BOX AS SHOWN IN THE DETAIL ON SHEET 35 AND ACCORDING TO THE QUANTITIES SHOWN ON SHEET 23.
- 14 TRENCH AND INSTALL NEW CONDUIT AND WIRING PER WIRING SCHEDULE. ADJUST ROUTING OF CONDUIT TO AVOID UTILITIES. RESTORE AREA BACK TO PRECONSTRUCTION CONDITION. MATCH GRADE OF SURFACE FINISH. TRENCH IS TO BE FILLED WITHIN 24 HOURS OF EXCAVATION. SEE TRENCHING DETAIL ON SHEET 35.
- 16 INSTALL/REUSE CABINET FROM AVONDALE/WOODINVILLE-DUVALL INTERSECTION ON EXISTING CONCRETE FOUNDATION. CONTRACTOR TO PROVIDE AND INSTALL CONTROLLER, PRETERMINATED 12-PORT PATCH PANEL AND ETHERNET SWITCH. SEE CONSTRUCTION NOTE 19 ON SHEET 21.
- 25 INSTALL AN UNINTERRUPTIBLE POWER SUPPLY (UPS) ON THE CABINET AS SHOWN ON THE PLANS ACCORDING TO SPECIAL PROVISIONS.

WIRING SCHEDULE			
CONDUIT #	CONDUIT SIZE	NEW	NEW
1	AERIAL		1
10	2" EX	1	
11	NEW 2"	1	
12	NEW 2"		2

THESE PLANS ARE NOT
SURVEY PRECISE. VERIFY
DIMENSIONS IN FIELD



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KING COUNTY DEPT. OF TRANSPORTATION

HAROLD TANIGUCHI, DIRECTOR
AVONDALE ITS, PHASE II
(NE 132ND ST TO NE WOODINVILLE-DUVALL RD)

CORRIDOR PLANS



King County

318-35 (15)

SHEET

15

OF

37

SHEETS

FED. AID No. CM-2085(005)

PROJECT No. 1115114
SURVEY No. N/A

MAINTENANCE DIVISION No. 1



FIELD BOOK:

SURVEYED:

SURVEY BASE MAP:

DESIGN ENTERED: J. HUH 4/2013

CHECKED: A. McMANUS 4/2013

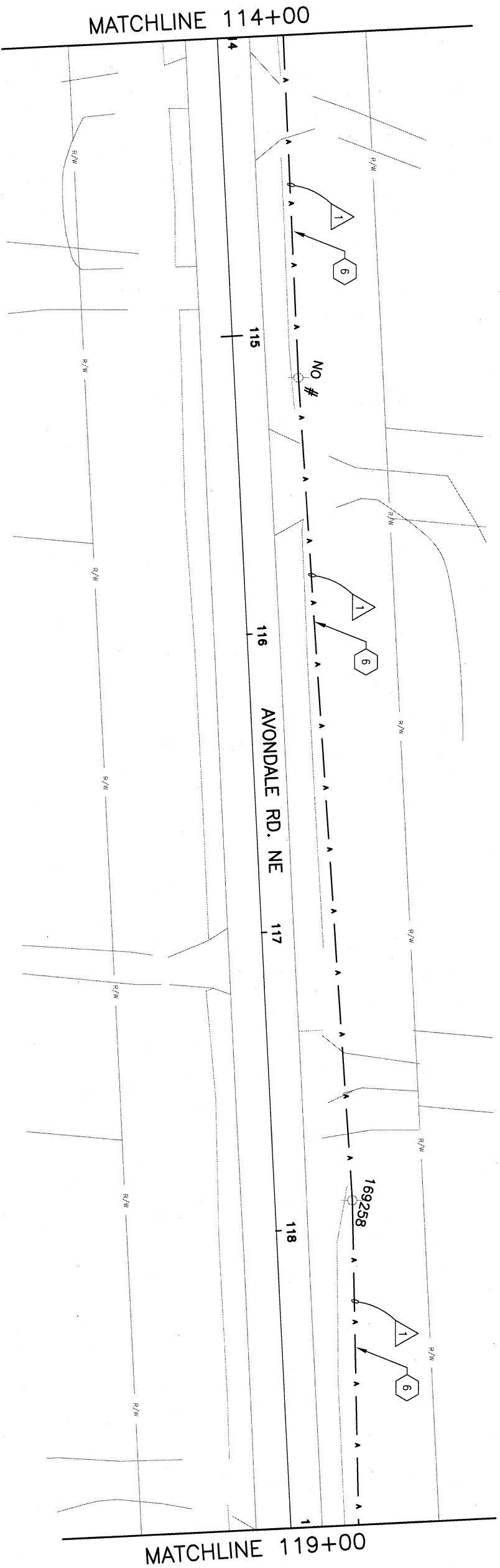
SUPERVISOR: M.C. MITCHELL 4/2013

DATE

BY

REVISION

NUM.



△ WIRING SCHEDULE			
CONDUIT #	CONDUIT SIZE	48 SMFO NEW	
1	AERIAL	1	

CONSTRUCTION NOTES:

6 INSTALL STEEL MESSENGER CABLE BETWEEN EXISTING UTILITY POLES. SEE SPECIFICATIONS FOR REQUIREMENTS REGARDING MESSENGER CABLE. ATTACH NEW AERIAL FIBER OPTIC CABLE TO MESSENGER BY LASHING. SEE DETAIL ON SHEET 3K.

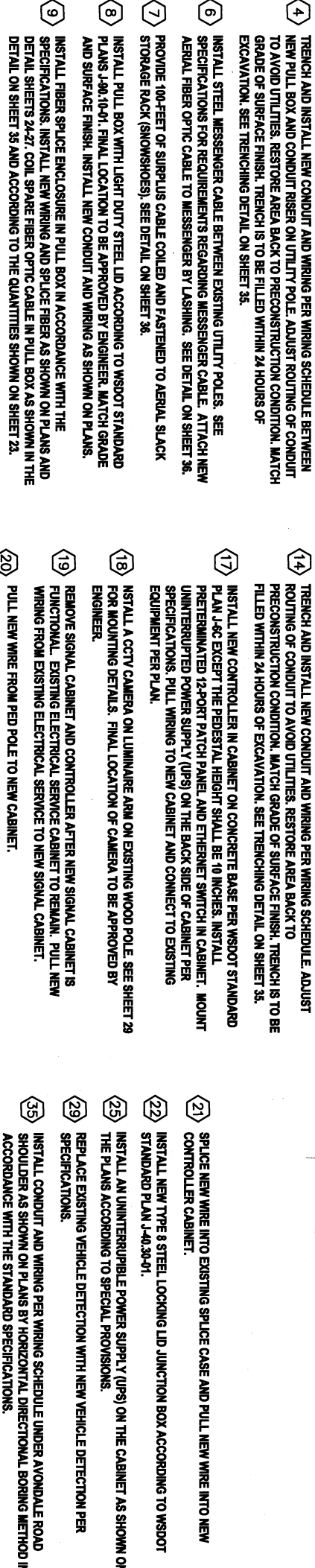
THESE PLANS ARE NOT
SURVEY PRECISE. VERIFY
DIMENSIONS IN FIELD



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FIELD BOOK:		FED. AID No.	CM-2085(005)		KING COUNTY DEPT. OF TRANSPORTATION HAROLD TANIGUCHI, DIRECTOR AVONDALE ITS, PHASE II (NE 132ND ST TO NE WOODINVILLE-DUVAL RD) CORRIDOR PLANS	 SHEET 16 OF 37 King County SHEETS
SURVEYED:		PROJECT No.	1115114			
SURVEY BASE MAP:	T. LEE 4/2013	SURVEY No.	N/A			
DESIGN ENTERED:	J. HUH 4/2013					
CHECKED:	A. MCMAHUS 4/2013					
SUPERVISOR:	M.C. MITCHELL 4/2013	MAINTENANCE DIVISION No.	1			
REVISION	BT	DATE				


CONDUIT #	CONDUIT SIZE	12 SMFO NEW	48 SMFO NEW	CCC	2C(SH)	Video Detectors	Opticom 3C	Power #6	Pedestrian Heads 5C	Opticom Existing #10	Vehicle Heads
1	Aerial		1								
13	Spanwire		2		1				2		
14	New 2-2"		2								
15	New 3"			2		4			5		5
	New 3"						3				
	New 2"							3			
16	New 2-2"	1									
17	New 2"		2		2						
	New 3"			2		4					
	New 3"						3		5		5
	New 2"							3			
18	Spanwire										
19	Spanwire										
35	Spanwire				1	2	3		2	Existing	5
					Existing	2	1		Existing	Existing	
A	Aerial		2		Existing	2	3		Existing	Existing	Existing

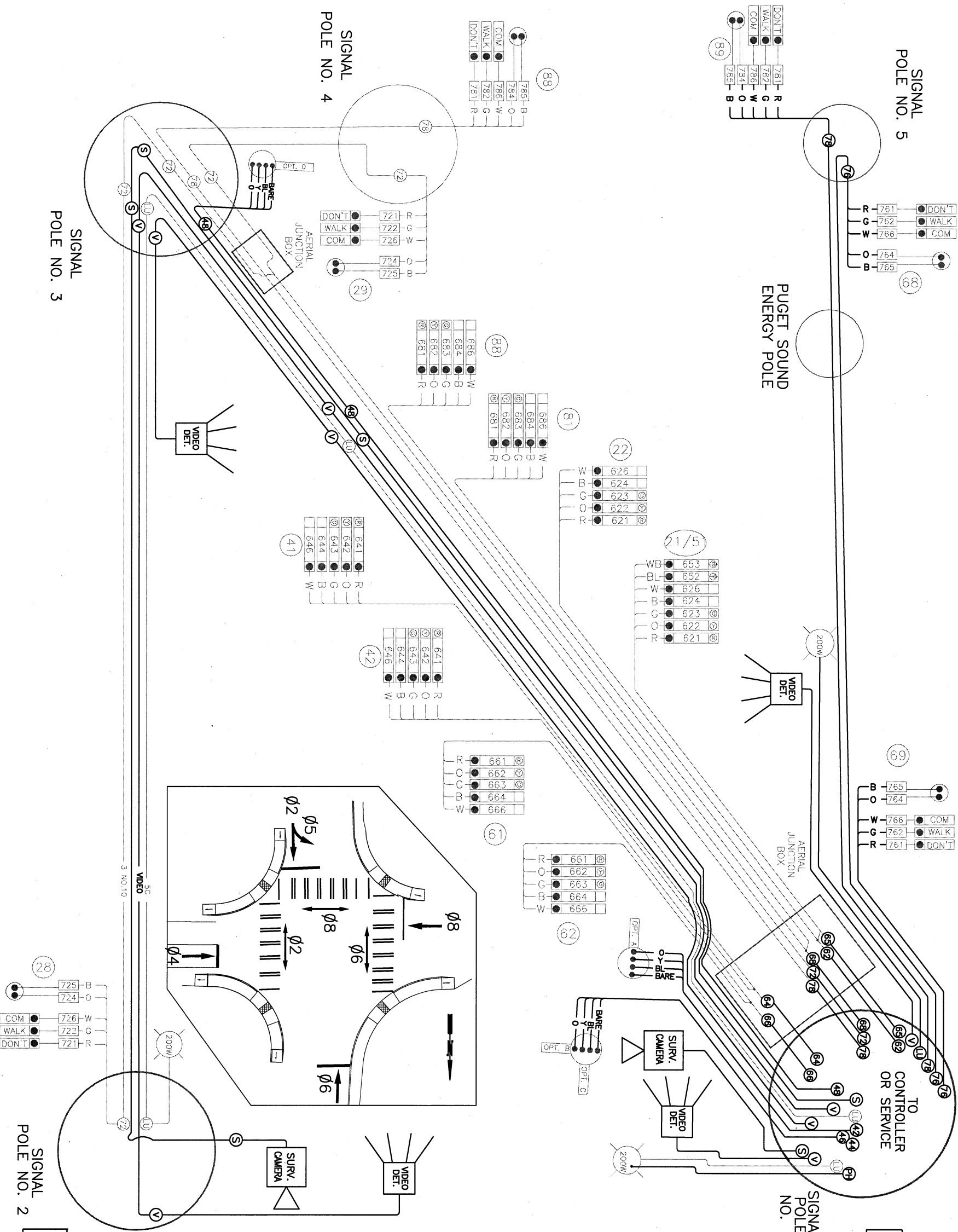


- 14 TRENCING AND INSTALL NEW CONDUIT AND WIRING PER WIRING SCHEDULE. ADJUST ROUTING OF CONDUIT TO AVOID UTILITIES. RESTORE AREA BACK TO PRECONSTRUCTION CONDITION. MATCH GRADE OF SURFACE FINISH. TRENCH IS TO BE FILLED WITHIN 24 HOURS OF EXCAVATION. SEE TRENCHING DETAIL ON SHEET 35.
- 17 INSTALL NEW CONTROLLER IN CABINET ON CONCRETE BASE PER WSDOT STANDARD PLAN J-6C EXCEPT THE PEDESTAL HEIGHT SHALL BE 10 INCHES. INSTALL PRETERMINATED 12-PORT PATCH PANEL AND ETHERNET SWITCH IN CABINET. MOUNT UNINTERRUPTED POWER SUPPLY (UPS) ON THE BACK SIDE OF CABINET PER SPECIFICATIONS. PULL WIRING TO NEW CABINET AND CONNECT TO EXISTING EQUIPMENT PER PLAN.
- 18 INSTALL A CCTV CAMERA ON LUMINAIRE ARM ON EXISTING WOOD POLE. SEE SHEET 29 FOR MOUNTING DETAILS. FINAL LOCATION OF CAMERA TO BE APPROVED BY ENGINEER.
- 19 REMOVE SIGNAL CABINET AND CONTROLLER AFTER NEW SIGNAL CABINET IS FUNCTIONAL. EXISTING ELECTRICAL SERVICE CABINET TO REMAIN. PULL NEW WIRING FROM EXISTING ELECTRICAL SERVICE TO NEW SIGNAL CABINET.
- 20 PULL NEW WIRE FROM PED POLE TO NEW CABINET.
- 21 SPLICE NEW WIRE INTO EXISTING SPLICE CASE AND PULL NEW WIRE INTO NEW CONTROLLER CABINET.
- 22 INSTALL NEW TYPE 8 STEEL LOCKING LID JUNCTION BOX ACCORDING TO WSDOT STANDARD PLAN J-40.30-01.
- 25 INSTALL AN UNINTERRUPTIBLE POWER SUPPLY (UPS) ON THE CABINET AS SHOWN ON THE PLANS ACCORDING TO SPECIAL PROVISIONS.
- 29 REPLACE EXISTING VEHICLE DETECTION WITH NEW VEHICLE DETECTION PER SPECIFICATIONS.
- 35 INSTALL CONDUIT AND WIRING PER WIRING SCHEDULE UNDER AVOIDABLE ROAD SHOULDER AS SHOWN ON PLANS BY HORIZONTAL DIRECTIONAL BORING METHOD IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

811
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KING COUNTY DEPT. OF TRANSPORTATION HAROLD TANIGUCHI, DIRECTOR AVONDALE ITS, PHASE II (NE 132ND ST TO NE WOODINVILLE-DUYALL RD) CORRIDOR PLANS		SHEET 17 OF 37
	King County	SHEETS
	318-35 (17)	



VEHICLE SIGNAL HEADS	EMERGENCY PRE-EMPTION	INTERCONNECT	POWER	PEDESTRIAN SIGNAL HEADS	COUNT DETECTION LOOPS (LOOP 3)	VEHICLE DETECTION (LOOPS 1,2,4,5)
611 R 612 G 613 W 614 B 615 Y 616 BL 617 R 618 G 619 W 620 B 621 Y 622 BL 623 R 624 G 625 W 626 B 627 Y 628 BL 629 R 630 G 631 W 632 B 633 Y 634 BL 635 R 636 G 637 W 638 B 639 Y 640 BL 641 R 642 G 643 W 644 B 645 Y 646 BL 647 R 648 G 649 W 650 B 651 Y 652 BL 653 R 654 G 655 W 656 B 657 Y 658 BL 659 R 660 G 661 W 662 B 663 Y 664 BL 665 R 666 G 667 W 668 B 669 Y 670 BL 671 R 672 G 673 W 674 B 675 Y 676 BL 677 R 678 G 679 W 680 B 681 Y 682 BL 683 R 684 G 685 W 686 B 687 Y 688 BL 689 R 690 G 691 W 692 B 693 Y 694 BL 695 R 696 G 697 W 698 B 699 Y 700 BL	581 BL 582 R 583 G 584 W 585 Y 586 BL 587 R 588 G 589 W 590 Y 591 BL 592 R 593 G 594 W 595 Y 596 BL 597 R 598 G 599 W 600 Y 601 BL 602 R 603 G 604 W 605 Y 606 BL 607 R 608 G 609 W 610 Y 611 BL 612 R 613 G 614 W 615 Y 616 BL 617 R 618 G 619 W 620 Y 621 BL 622 R 623 G 624 W 625 Y 626 BL 627 R 628 G 629 W 630 Y 631 BL 632 R 633 G 634 W 635 Y 636 BL 637 R 638 G 639 W 640 Y 641 BL 642 R 643 G 644 W 645 Y 646 BL 647 R 648 G 649 W 650 Y 651 BL 652 R 653 G 654 W 655 Y 656 BL 657 R 658 G 659 W 660 Y 661 BL 662 R 663 G 664 W 665 Y 666 BL 667 R 668 G 669 W 670 Y 671 BL 672 R 673 G 674 W 675 Y 676 BL 677 R 678 G 679 W 680 Y 681 BL 682 R 683 G 684 W 685 Y 686 BL 687 R 688 G 689 W 690 Y 691 BL 692 R 693 G 694 W 695 Y 696 BL 697 R 698 G 699 W 700 Y	761 DON'T 762 WALK 763 COM 764 O 765 B 766 W 767 G 768 R 769 Y 770 BL 771 R 772 G 773 W 774 B 775 Y 776 BL 777 R 778 G 779 W 780 B 781 Y 782 BL 783 R 784 G 785 W 786 B 787 Y 788 BL 789 R 790 G 791 W 792 B 793 Y 794 BL 795 R 796 G 797 W 798 B 799 Y 800 BL	721 R 722 G 723 W 724 B 725 Y 726 BL 727 R 728 G 729 W 730 B 731 Y 732 BL 733 R 734 G 735 W 736 B 737 Y 738 BL 739 R 740 G 741 W 742 B 743 Y 744 BL 745 R 746 G 747 W 748 B 749 Y 750 BL 751 R 752 G 753 W 754 B 755 Y 756 BL 757 R 758 G 759 W 760 B 761 Y 762 BL 763 R 764 G 765 W 766 B 767 Y 768 BL 769 R 770 G 771 W 772 B 773 Y 774 BL 775 R 776 G 777 W 778 B 779 Y 780 BL 781 R 782 G 783 W 784 B 785 Y 786 BL 787 R 788 G 789 W 790 B 791 Y 792 BL 793 R 794 G 795 W 796 B 797 Y 798 BL 799 R 800 G	911 R 912 G 913 W 914 B 915 Y 916 BL 917 R 918 G 919 W 920 B 921 Y 922 BL 923 R 924 G 925 W 926 B 927 Y 928 BL 929 R 930 G 931 W 932 B 933 Y 934 BL 935 R 936 G 937 W 938 B 939 Y 940 BL 941 R 942 G 943 W 944 B 945 Y 946 BL 947 R 948 G 949 W 950 B 951 Y 952 BL 953 R 954 G 955 W 956 B 957 Y 958 BL 959 R 960 G 961 W 962 B 963 Y 964 BL 965 R 966 G 967 W 968 B 969 Y 970 BL 971 R 972 G 973 W 974 B 975 Y 976 BL 977 R 978 G 979 W 980 B 981 Y 982 BL 983 R 984 G 985 W 986 B 987 Y 988 BL 989 R 990 G 991 W 992 B 993 Y 994 BL 995 R 996 G 997 W 998 B 999 Y 1000 BL	811 R 812 G 813 W 814 B 815 Y 816 BL 817 R 818 G 819 W 820 B 821 Y 822 BL 823 R 824 G 825 W 826 B 827 Y 828 BL 829 R 830 G 831 W 832 B 833 Y 834 BL 835 R 836 G 837 W 838 B 839 Y 840 BL 841 R 842 G 843 W 844 B 845 Y 846 BL 847 R 848 G 849 W 850 B 851 Y 852 BL 853 R 854 G 855 W 856 B 857 Y 858 BL 859 R 860 G 861 W 862 B 863 Y 864 BL 865 R 866 G 867 W 868 B 869 Y 870 BL 871 R 872 G 873 W 874 B 875 Y 876 BL 877 R 878 G 879 W 880 B 881 Y 882 BL 883 R 884 G 885 W 886 B 887 Y 888 BL 889 R 890 G 891 W 892 B 893 Y 894 BL 895 R 896 G 897 W 898 B 899 Y 900 BL	621 R 622 G 623 W 624 B 625 Y 626 BL 627 R 628 G 629 W 630 B 631 Y 632 BL 633 R 634 G 635 W 636 B 637 Y 638 BL 639 R 640 G 641 W 642 B 643 Y 644 BL 645 R 646 G 647 W 648 B 649 Y 650 BL 651 R 652 G 653 W 654 B 655 Y 656 BL 657 R 658 G 659 W 660 B 661 Y 662 BL 663 R 664 G 665 W 666 B 667 Y 668 BL 669 R 670 G 671 W 672 B 673 Y 674 BL 675 R 676 G 677 W 678 B 679 Y 680 BL 681 R 682 G 683 W 684 B 685 Y 686 BL 687 R 688 G 689 W 690 B 691 Y 692 BL 693 R 694 G 695 W 696 B 697 Y 698 BL 699 R 700 G

FIELD BOOK:
SURVEYED:
SURVEY BASE MAP:
DESIGN ENTERED: S.GAGE/JOHNSON 10/2012
DESIGNED: LMOTT 10/2012
CHECKED: AMCMANUS 10/2012
SUPERVISOR: N.POSEY 10/2012

FED. AID No. CM-2085(005)
PROJECT No. 1115114
SURVEY No. 18-26-6-17 (2000)
MAINTENANCE DIVISION No. 1

MARK C. MOTT
STATE OF WASHINGTON
NO. 24103
MECHANICAL ENGINEERING

KING COUNTY DEPT. OF TRANSPORTATION
HAROLD TANGICH, DIRECTOR
AVONDALE ITS, PHASE II
AT NE 165TH STREET
TRAFFIC SIGNAL MODIFICATION
WIRING PLAN

CALL 2 WORKING
DAYS BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

King County
SHEETS
37
318-35 (18)

MATCHLINE 125+00

MATCHLINE 131+00

MATCHLINE 131+00

MATCHLINE 136+00

WIRING SCHEDULE			
CONDUIT #	CONDUIT SIZE	48 SMFO NEW	
1	AERIAL	1	

CONSTRUCTION NOTES:

- 6 INSTALL STEEL MESSENGER CABLE BETWEEN EXISTING UTILITY POLES. SEE SPECIFICATIONS FOR REQUIREMENTS REGARDING MESSENGER CABLE. ATTACH NEW AERIAL FIBER OPTIC CABLE TO MESSENGER BY LASHING. SEE DETAIL ON SHEET 36.
- 7 PROVIDE 100-FEET OF SURPLUS CABLE COILED AND FASTENED TO AERIAL SLACK STORAGE RACK (SNOWSHOES). SEE DETAIL ON SHEET 23.

SCALE IN FEET



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(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

KING COUNTY DEPT. OF TRANSPORTATION

AVONDALE ITS, PHASE II
(NE 132ND ST TO NE WOODINVILLE-DUVALL RD)

CORRIDOR PLANS

318-35 (19)

FED. AID No. CM-2085(005)
PROJECT No. 1115114
SURVEY No. N/A
MAINTENANCE DIVISION No. 1



FIELD BOOK:
SURVEYED:
SURVEY BASE MAP:
DESIGN ENTERED:
CHECKED:
SUPERVISOR:

T. LEE 4/2013
J. HUH 4/2013
A. McMANUS 4/2013
M.C. MITCHELL 4/2013

NUM. REVISION

BY DATE

MATCHLINE 136+00

AVONDALE RD. NE

137

138

139

140

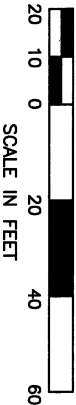
MATCHLINE 141+00

MATCHLINE 141+00

142+08.46

AVONDALE RD. NE.

MATCHLINE 146+00



THESE PLANS ARE NOT
SURVEY PRECISE. VERIFY
DIMENSIONS IN FIELD

CONSTRUCTION NOTES:

- INSTALL CONDUIT AND WIRING PER WIRING SCHEDULE UNDER AVONDALE ROAD AS SHOWN ON PLANS BY HORIZONTAL DIRECTIONAL BORING METHOD IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
- CONTRACTOR SHALL INSTALL 2-INCH CONDUIT RISER ON THE EXISTING UTILITY POLE. SUPPORT THE CONDUIT USING CONDUIT STANDOFF BRACKET. COORDINATE WITH PUECT SOUND ENERGY AS TO THE HEIGHT OF THE CONDUIT. SEE DETAIL SHEET 36.
- INSTALL STEEL MESSENGER CABLE BETWEEN EXISTING UTILITY POLES. SEE SPECIFICATIONS FOR REQUIREMENTS REGARDING MESSENGER CABLE. ATTACH NEW AERIAL FIBER OPTIC CABLE TO MESSENGER BY LASHING. SEE DETAIL ON SHEET 36.
- PROVIDE 100-FOOT OF SURPLUS CABLE COILED AND FASTENED TO AERIAL SLACK

- INSTALL PULL BOX WITH LIGHT DUTY STEEL LID ACCORDING TO WSDOT STANDARD PLANS J-40.10-01. FINAL LOCATION TO BE APPROVED BY ENGINEER. MATCH GRADE AND SURFACE FINISH. INSTALL NEW CONDUIT AND WIRING AS SHOWN ON PLANS.
- INSTALL FIBER SPLICE ENCLOSURE IN PULL BOX IN ACCORDANCE WITH THE SPECIFICATIONS. INSTALL NEW WIRING AND SPLICE FIBER AS SHOWN ON PLANS AND ON DETAIL SHEET 24-27. COIL SPARE FIBER CABLE IN PULL BOX AS SHOWN IN THE DETAIL ON SHEET 35 AND ACCORDING TO THE QUANTITIES SHOWN ON SHEET 23.
- INSTALL POWER METER AND 100 AMP SERVICE. ATTACH TO PPS POLE. SEE DETAIL SHEET 36.
- TRENCH AND INSTALL NEW CONDUIT AND WIRING PER WIRING SCHEDULE. ADJUST ROUTING OF CONDUIT TO AVOID UTILITIES. RESTORE AREA BACK TO PRECONSTRUCTION CONDITION. MATCH GRADE OF SURFACE FINISH. TRENCH IS TO BE FILLED WITHIN 24 HOURS OF EXCAVATION. SEE TRENCHING DETAIL ON SHEET 35.

- AERIAL POWER PROVIDED BY PSE.
- INSTALL PPS CAMERA SYSTEM ON NEW POLE AND ARM PER MANUFACTURER'S RECOMMENDATION. PPS CAMERA SHALL BE AIMED AT REAR OF VEHICLES AND POSITIONED ABOVE THE INSIDE TRAVEL LANE IN ACCORDANCE WITH SPECIAL PROVISIONS. SEE DETAIL SHEET 30 FOR PPS MOUNTING DETAILS.
- INSTALL NEW TYPE 2 JUNCTION BOX WITH LOCKING LID ACCORDING TO WSDOT STANDARD PLAN J-40.10-02.
- INSTALL POLE MOUNTED CABINET FOR PPS CAMERA SYSTEM. SEE SHEET 31 FOR WIRING DETAIL.



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WIRING SCHEDULE					
CONDUIT #	CONDUIT SIZE	12 SMFO 1/48 SMFO NEW	PPS CABLE NEW	POWER #8GROUND #8 NEW	
1	AERIAL		1		
20	NEW 2"		2		
22	NEW 2"		1		
26	NEW 2"	1	1		1

FIELD BOOK:

SURVEYED:

SURVEY BASE MAP:

DESIGN ENTERED:

CHECKED:

SUPERVISOR:

FED. AID NO. CM-2085(005)

PROJECT NO. 1115114

SURVEY NO. N/A

MAINTENANCE DIVISION NO. 1



KING COUNTY DEPT. OF TRANSPORTATION
HAROLD TANIGUCHI, DIRECTOR
AVONDALE ITS, PHASE II
(NE 132ND ST TO NE WOODVILLE-DUVAL RD)
CORRIDOR PLANS



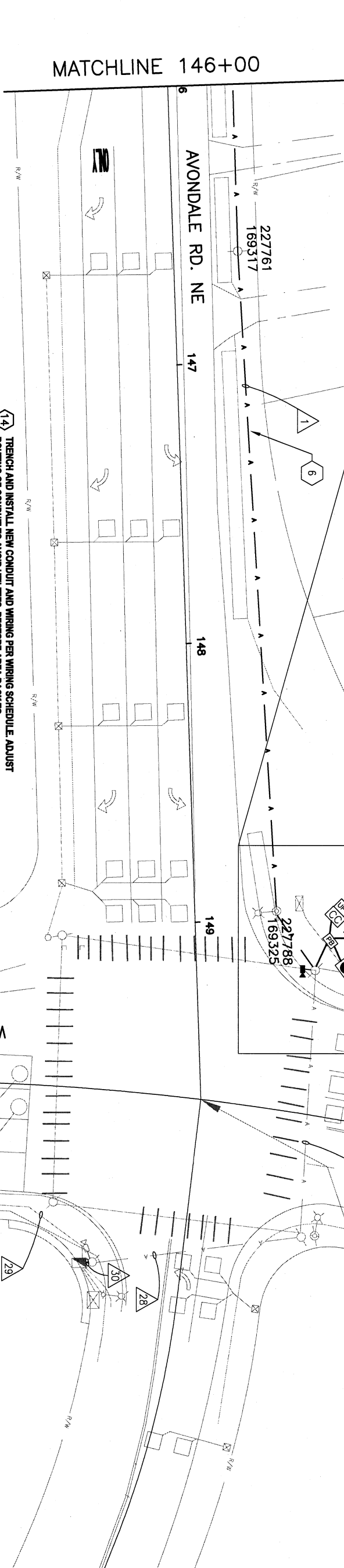
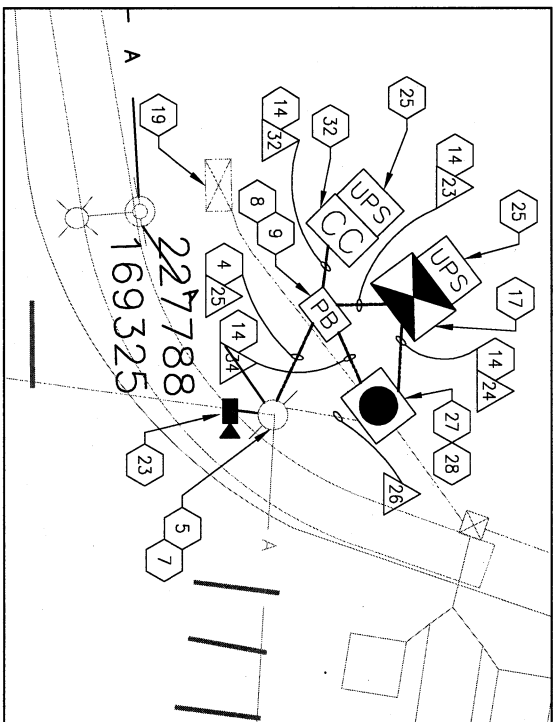
King County

318-35 (20)

SHEET 20

OF 37

SHEETS



CONSTRUCTION NOTES:

- TRENCH AND INSTALL NEW CONDUIT AND WIRING PER WIRING SCHEDULE BETWEEN NEW PULL BOX AND CONDUIT RISER ON UTILITY POLE. ADJUST ROUTING OF CONDUIT TO AVOID UTILITIES. RESTORE AREA BACK TO PRECONSTRUCTION CONDITION. MATCH GRADE OF SURFACE FINISH. TRENCH IS TO BE FILLED WITHIN 24 HOURS OF EXCAVATION. SEE TRENCHING DETAIL ON SHEET 35.
- CONTRACTOR SHALL INSTALL 2-INCH CONDUIT RISER ON THE EXISTING UTILITY POLE. SUPPORT THE CONDUIT USING CONDUIT STANDOFF BRACKET. COORDINATE WITH PUGET SOUND ENERGY AS TO THE HEIGHT OF THE CONDUIT. SEE DETAIL SHEET 36.
- INSTALL STEEL MESSENGER CABLE BETWEEN EXISTING UTILITY POLES. SEE SPECIFICATIONS FOR REQUIREMENTS REGARDING MESSENGER CABLE. ATTACH NEW AERIAL FIBER OPTIC CABLE TO MESSENGER BY LASHING. SEE DETAIL ON SHEET 36.
- PROVIDE 100-FEET OF SURPLUS CABLE COILED AND FASTENED TO AERIAL SLACK STORAGE RACK (SNOWSHOES). SEE DETAIL ON SHEET 36.
- INSTALL PULL BOX WITH LIGHT DUTY STEEL LID ACCORDING TO WSDOT STANDARD PLANS 1-15a. FINAL LOCATION TO BE APPROVED BY ENGINEER. MATCH GRADE AND SURFACE FINISH. INSTALL NEW CONDUIT AND WIRING AS SHOWN ON PLANS.
- INSTALL FIBER SPLICE ENCLOSURE IN PULL BOX IN ACCORDANCE WITH THE SPECIFICATIONS. INSTALL NEW WIRING AND SPLICE FIBER AS SHOWN ON PLANS AND ON DETAIL SHEET 24-27. COIL SPARE FIBER CABLE IN PULL BOX AS SHOWN IN DETAIL ON SHEET 35 AND ACCORDING TO THE QUANTITIES SHOWN ON SHEET 23.
- TRENCH AND INSTALL NEW CONDUIT AND WIRING PER WIRING SCHEDULE. ADJUST ROUTING OF CONDUIT TO AVOID UTILITIES. RESTORE AREA BACK TO PRECONSTRUCTION CONDITION. MATCH GRADE OF SURFACE FINISH. TRENCH IS TO BE FILLED WITHIN 24 HOURS OF EXCAVATION. SEE TRENCHING DETAIL ON SHEET 35.
- INSTALL NEW CONTROLLER IN CABINET ON CONCRETE BASE PER WSDOT STANDARD PLAN J-6C EXCEPT THE PEDESTAL HEIGHT SHALL BE 10 INCHES. INSTALL PRETERMINATED 12-PORT PATCH PANEL AND ETHERNET SWITCH IN CABINET. MOUNT UNINTERRUPTED POWER SUPPLY (UPS) ON THE BACK SIDE OF CABINET PER SPECIFICATIONS. PULL WIRING TO NEW CABINET AND CONNECT TO EXISTING EQUIPMENT PER PLAN.
- REMOVE EXISTING CABINET AND CONTROLLER AFTER NEW CABINET IS FUNCTIONAL. RELOCATE EXISTING CABINET TO APPROXIMATE STATION 110+00. SEE CONSTRUCTION NOTE 16 ON SHEET 16.
- INSTALL A CCTV CAMERA AND EXTENSION ARM ON EXISTING WOOD POLE. SEE SHEET 29 FOR MOUNTING DETAILS. FINAL LOCATION OF CAMERA TO BE APPROVED BY ENGINEER.
- INSTALL AN UNINTERRUPTIBLE POWER SUPPLY (UPS) ON THE CABINET AS SHOWN ON THE PLANS ACCORDING TO SPECIAL PROVISIONS.
- REPLACE EXISTING TYPE 3 JUNCTION BOX WITH NEW TYPE 8 STEEL LOCKING LID JUNCTION BOX ACCORDING TO WSDOT STANDARD PLAN 1-40-30-42.
- PULL EXISTING WIRE FROM EXISTING CONTROLLER CABINET INTO JUNCTION BOX AND REROUTE INTO NEW CONTROLLER CABINET.
- INSTALL FOUNDATION AND FIBER OPTIC COMMUNICATION CABINET WITH PATCH PANELS, FIBER SWITCH, CAMERA EQUIPMENT AND ANGLIARY EQUIPMENT AS SHOWN ON DETAIL SHEET 38 AND PER SPECIFICATIONS. TERMINATE FIBER OPTIC CABLES IN CABINET PER DETAIL SHEET 27.

WIRING SCHEDULE

CONDUIT #	CONDUIT SIZE	12 SMFO NEW	48 SMFO NEW	CCC	DMS POWER	OTHER
1	AERIAL	1	1			
23	NEW 2-2"					
24	NEW 2-3" 1-2"					EX. SIGNAL
25	NEW 2"	1	1	1-1 EX*	1	
26	EX. 2"					EX. SIGNAL
27	SPAWIRE EX.	1		1 EX	1	
28	AERIAL	1		1 EX	1	
29	2"	1			1	
30	2"	1			1	
32	NEW 2-3"	2	1	1-1 EX*	1	
34	NEW 2-2"					

* PULL EXISTING CAMERA CABLE INTO NEW FIBER COMM CABINET

MATCHLINE 11+75



CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

FIELD BOOK:		FED. AID No. CM-2085(005)	
SURVEYED:		PROJECT No. 1115114	
SURVEY BASE MAP:	T. LEE 4/2013	SURVEY No. N/A	
DESIGN ENTERED:	J. HUH 4/2013		
CHECKED:	A. MCMAHUS 4/2013		
SUPERVISOR:	M.C. MITCHELL 4/2013	MAINTENANCE DIVISION No. 1	
REVISION	BY DATE		
KING COUNTY DEPT. OF TRANSPORTATION HAROLD TANIGUCHI, DIRECTOR AVONDALE ITS, PHASE II (NE 132ND ST TO NE WOODVILLE-DUVAL RD) CORRIDOR PLANS		SHEET 21 OF 37 King County 318-35 (21)	



THESE PLANS ARE NOT
SURVEY PRECISE. VERIFY
DIMENSIONS IN FIELD

FIELD BOOK: _____		FED. AID No. CM-2085(005)	
SURVEYED: _____	_____	PROJECT No. 1115114	
SURVEY BASE MAP: _____	_____	SURVEY No. N/A	
DESIGN ENTERED: _____	_____	MAINTENANCE DIVISION No. 1	
DESIGNED: _____	_____	_____	
CHECKED: _____	_____	_____	
SUPERVISOR: _____	_____	_____	
BY _____	DATE _____	_____	
REVISION _____		_____	

LEGEND

∞

FIBER SLACK

X

SPLICE

SMFO

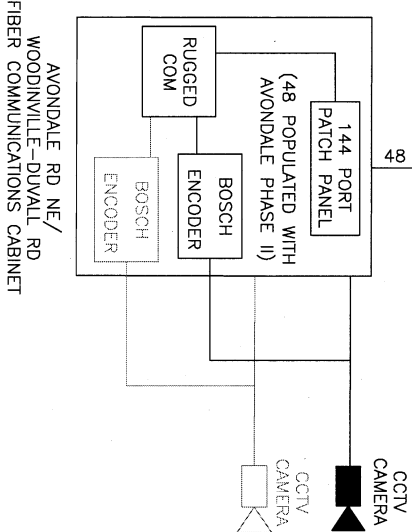
SINGLEMODE FIBER OPTIC

FOPP

FIBER OPTIC PRE-TERMINATED PANEL CABLE

SXXX

SPLICE #



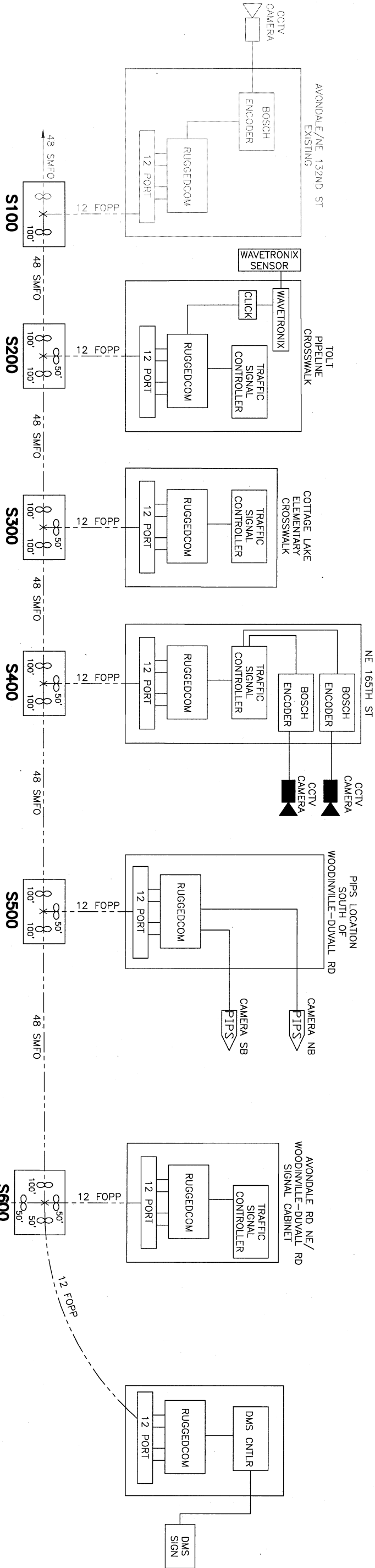
SPLICE DETAILS		
SPLICE #	PLAN SHEET #	DETAIL SHEET #
S100	SHEET 4	SHEET 24
S200	SHEET 11	SHEET 25
S300	SHEET 15	SHEET 25
S400	SHEET 17	SHEET 26
S500	SHEET 20	SHEET 26
S600	SHEET 21	SHEET 27

811

Know what's below.
Call before you dig.

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DAYS BEFORE YOU DIG
1-800-424-5555

(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)



KING COUNTY DEPT. OF TRANSPORTATION

HAROLD TANIGUCHI, DIRECTOR

AVONDALE ITS, PHASE II

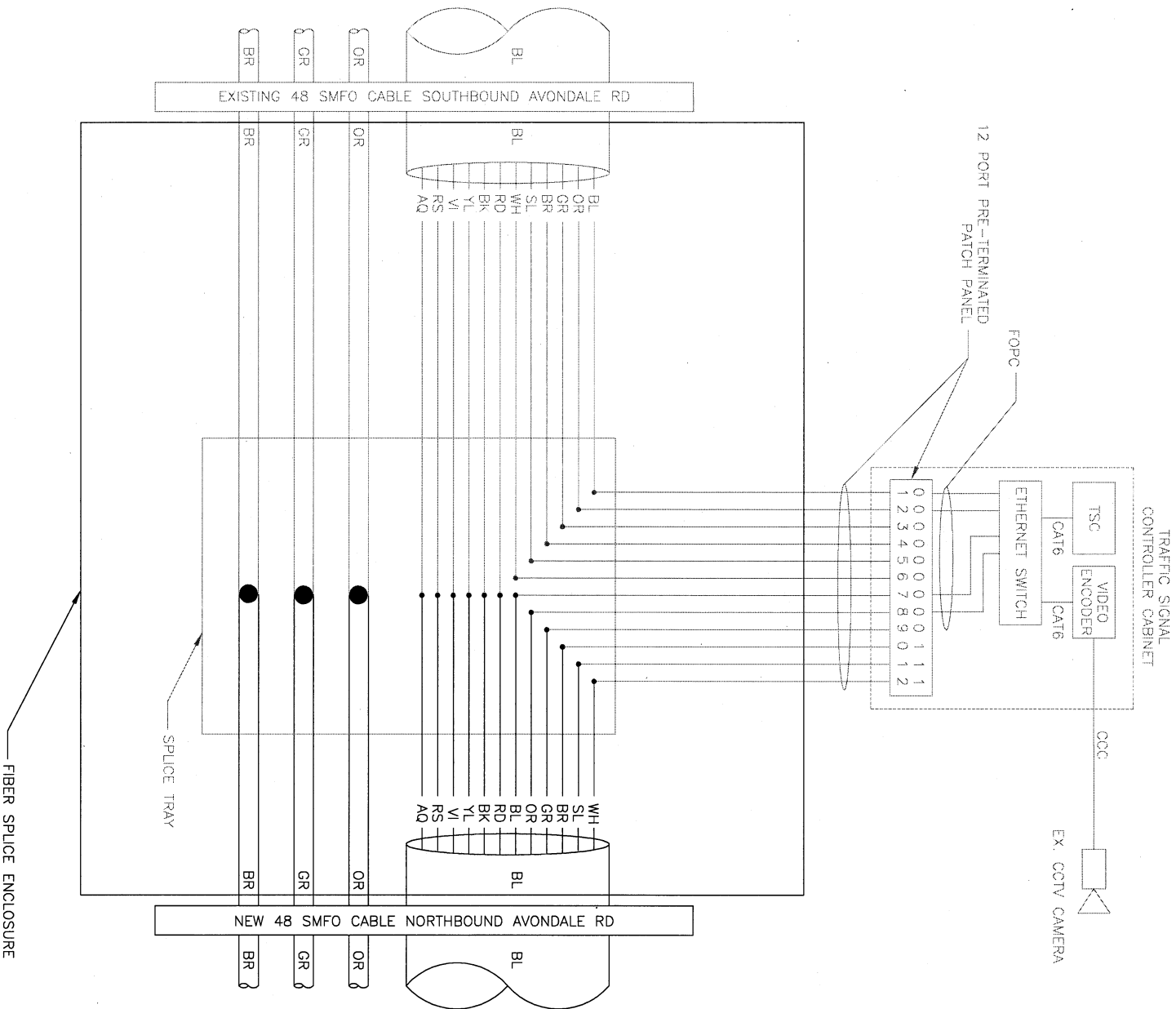
(NE 132ND ST TO NE WOODINVILLE-DUVALL RD)

SCHEMATIC-- LOGICAL NETWORK

King County

23
OF
37
SHEETS

318-35 (23)



S100 NE 132 ST SPLICE DETAIL

NOT TO SCALE

FIELD BOOK:	
SURVEYED:	
SURVEY BASE MAP:	T. LEE 4/2013
DESIGN ENTERED:	J. HUH 4/2013
DESIGNED:	A. McMANUS 4/2013
CHECKED:	
SUPERVISOR:	M.C. MITCHELL 4/2013
NUM.	
REVISION	
BY	
DATE	

FED. AID No.	CM-2085(005)
PROJECT No.	1115114
SURVEY No.	N/A
MAINTENANCE DIVISION No.	1

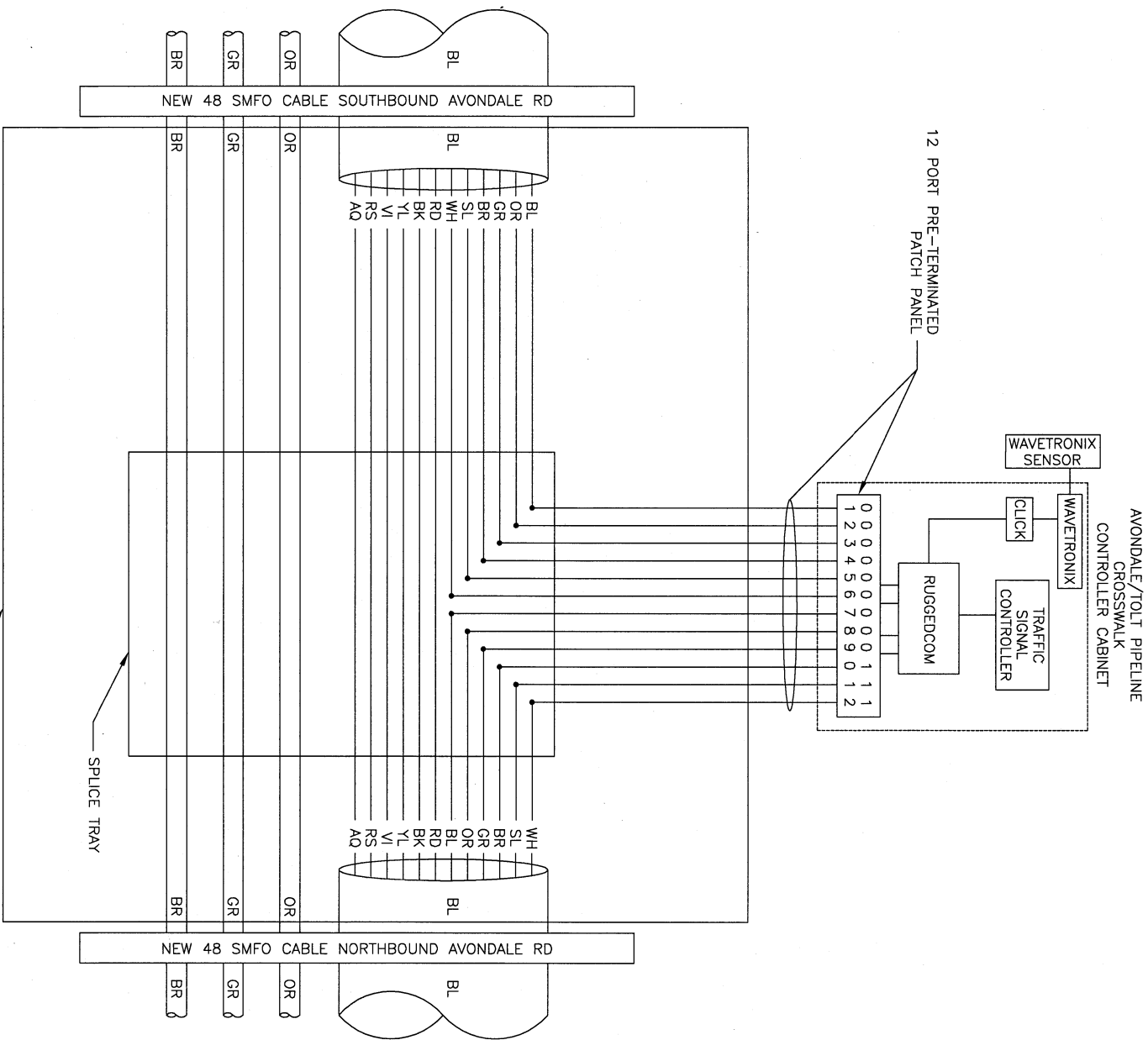


KING COUNTY DEPT. OF TRANSPORTATION
HAROLD TANIGUCHI, DIRECTOR
AVONDALE ITS, PHASE II
(NE 132ND ST TO NE WOODINVILLE-DUVALL RD)

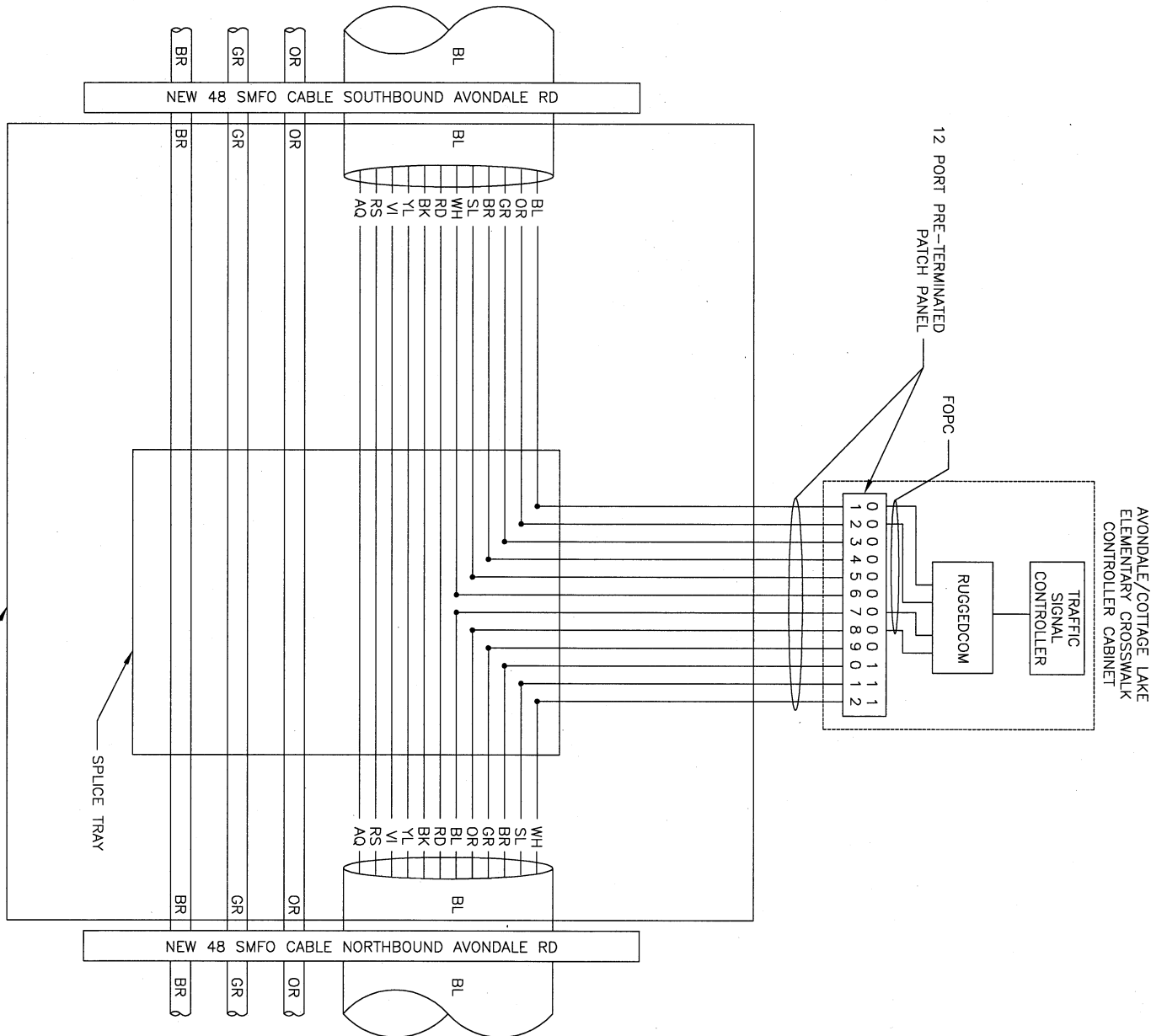
DETAIL - FIBER SPICE

811
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Call before you dig.
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DAYS BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

	SHEET 24 OF 37 SHEETS
King County	318-35 (24)



S200 TOLT PIPELINE CROSSWALK
SPICE DETAIL
NOT TO SCALE



S300 COTTAGE LAKE ELEMENTARY
CROSSWALK SPICE DETAIL
NOT TO SCALE

FIELD BOOK:	
SURVEYED:	
SURVEY BASE MAP:	T. LEE 4/2013
DESIGN ENTERED:	J. HUH 4/2013
DESIGNED:	A. McMANUS 4/2013
CHECKED:	M.C. MITCHELL 4/2013
SUPERVISOR:	NUL
BY	DATE

FED. AID No.	CM-2085(005)
PROJECT No.	1115114
SURVEY No.	N/A
MAINTENANCE DIVISION No.	1

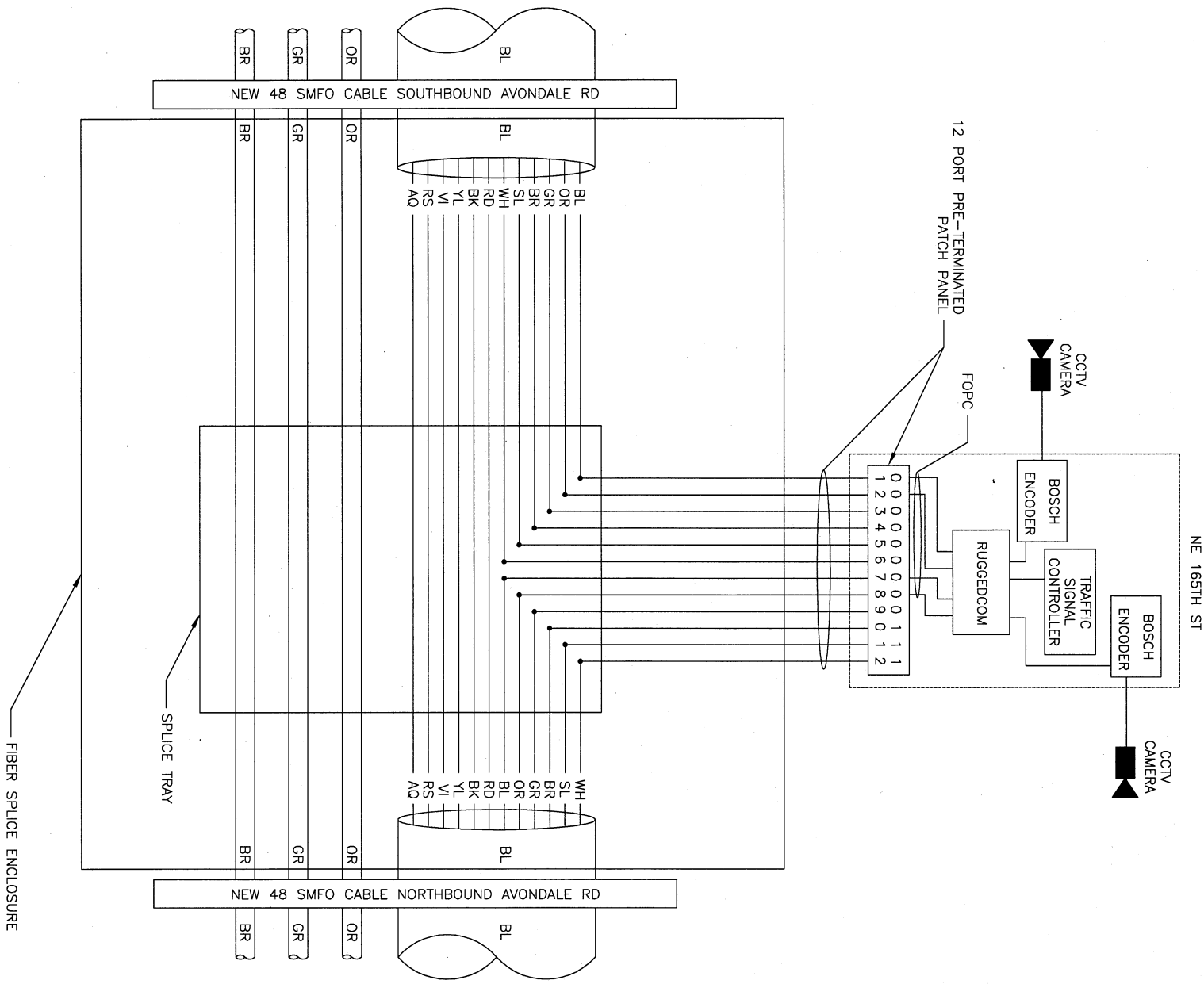
FED. AID No.	CM-2085(005)
PROJECT No.	1115114
SURVEY No.	N/A
MAINTENANCE DIVISION No.	1



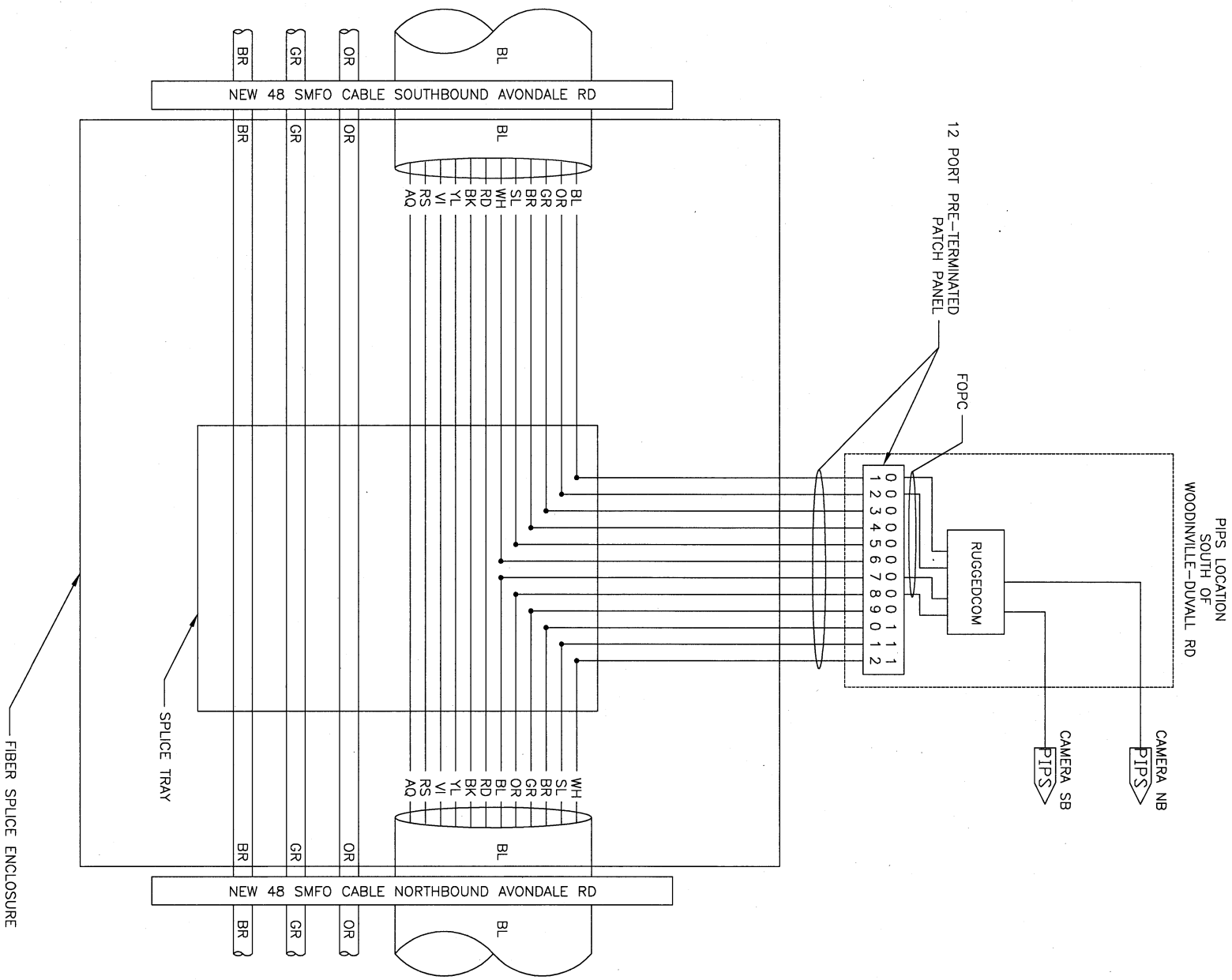
KING COUNTY DEPT. OF TRANSPORTATION
HAROLD TANIGUCHI, DIRECTOR
AVONDALE ITS, PHASE II
(NE 132ND ST TO NE WOODINVILLE-DUVALL RD)
DETAIL - FIBER SPLICE

811
Know what's below.
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S400 NE 165 ST SPLICING DETAIL
NOT TO SCALE



S500 PIPS LOCATION SPLICING DETAIL
NOT TO SCALE

FIELD BOOK: _____		FED. AID No. <u>CM-2085(005)</u>	
SURVEYED: _____		PROJECT No. <u>1115114</u>	
SURVEY BASE MAP: _____		SURVEY No. <u>N/A</u>	
DESIGN ENTERED: _____		MAINTENANCE DIVISION No. <u>1</u>	
DESIGNED: _____			
CHECKED: _____			
SUPERVISOR: _____			
M.C. MITCHELL 4/2013			
N.M.			
BY _____		DATE _____	
REVISION _____			




KING COUNTY DEPT. OF TRANSPORTATION

HAROLD TANIGUCHI, DIRECTOR

AVONDALE ITS, PHASE II

(NE 132ND ST TO NE WOODINVILLE-DUVAL RD)

DETAIL - FIBER SPLICING

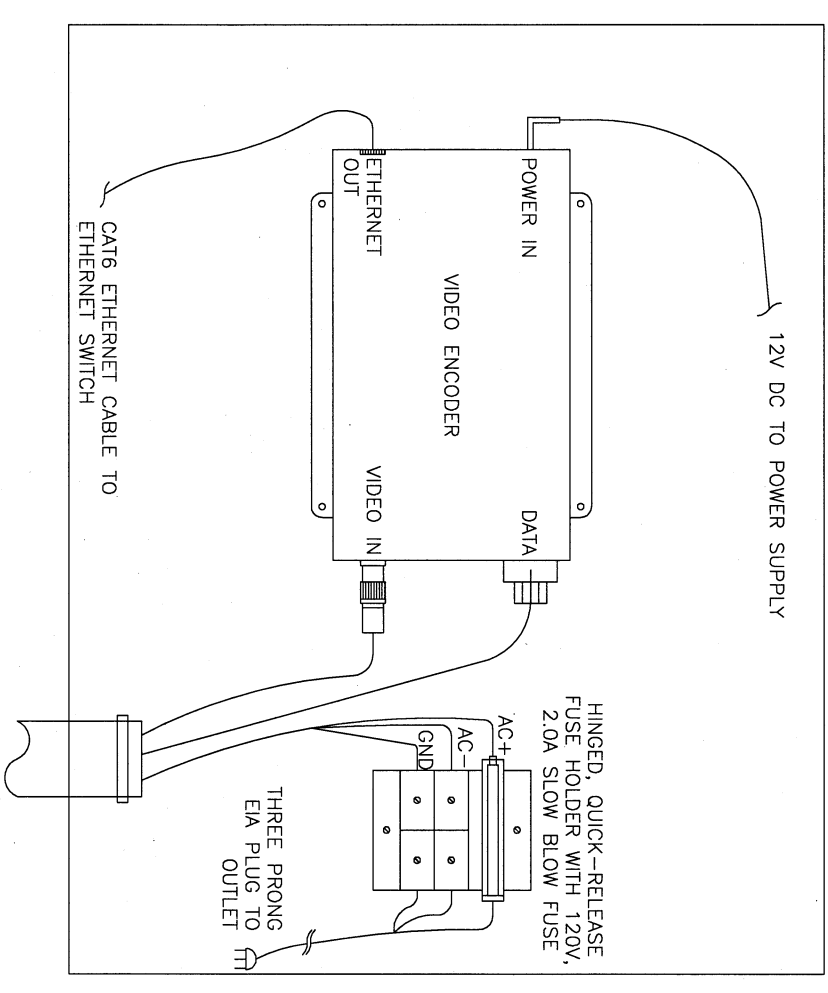
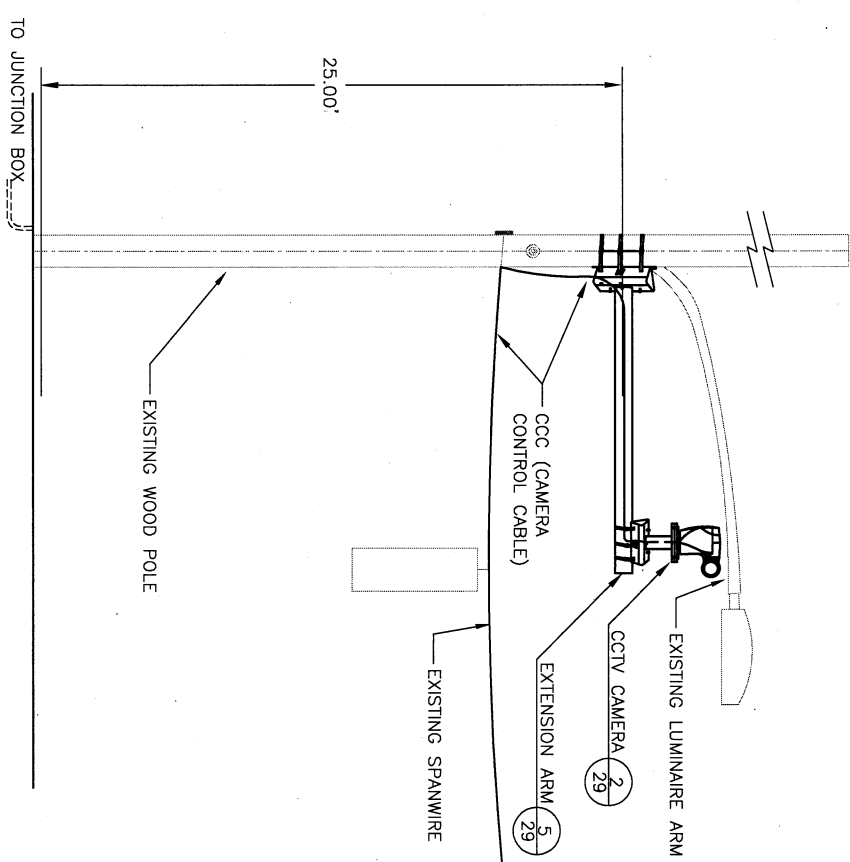
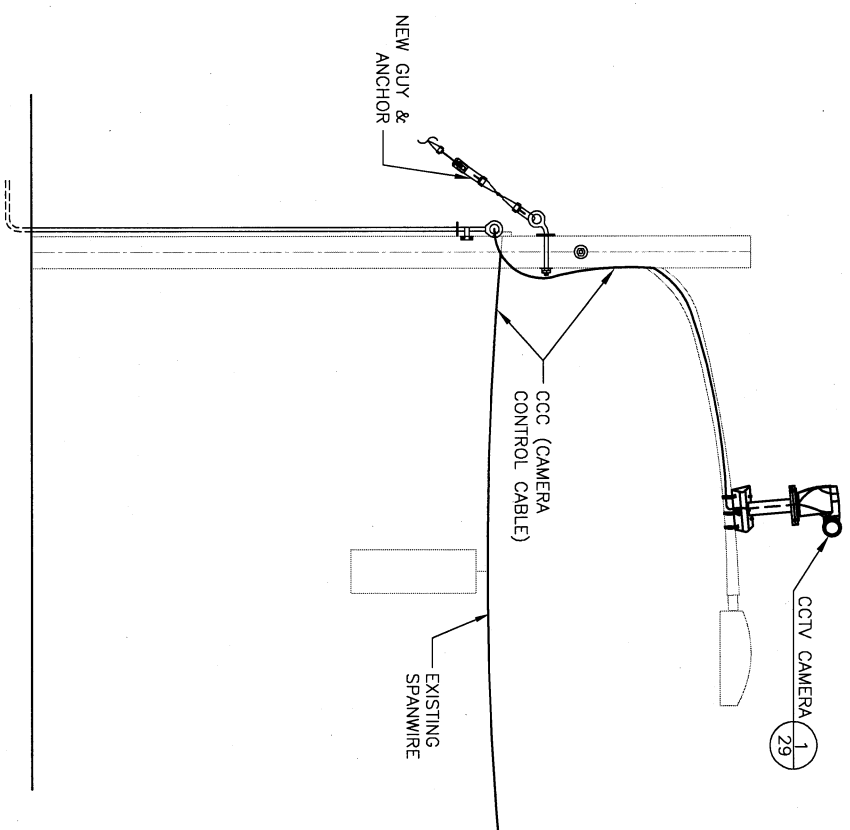


SHEET 26 OF 37 SHEETS

CALL 2 WORKING DAYS BEFORE YOU DIG

1-800-424-5555

(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)



CAMERA NE 165TH ST
NE CORNER AND NW CORNER
EXISTING LUMINAIRE ARMS

NOT TO SCALE

CAMERA WOODINVILLE-DUVALL RD
SW CORNER EXISTING WOOD SIGNAL POLE

NOT TO SCALE

CCTV CAMERA WIRING IN CABINET

NOT TO SCALE

23, 26, 27

FIELD BOOK:						
SURVEYED:						
SURVEY BASE MAP:						
DESIGN ENTERED:	T. LEE	4/2013				
DESIGNED	J. HUH	4/2013				
CHECKED:	A. MCMANUS	4/2013				
SUPERVISOR:	M.C. MITCHELL	4/2013				
	NUM.		REVISION		BY	DATE

FED. AID No. _____	CM-2086(005)
PROJECT No. _____	1115114
SURVEY No. _____	N/A
MAINTENANCE DIVISION No. _____	1



KING COUNTY DEPT. OF TRANSPORTATION
HAROLD TANGUCHI, DIRECTOR
AVONDALE ITS, PHASE II
(NE 132ND ST TO NE WOODINVILLE-DUVALL RD)

DETAIL - CCTV CAMERAS



**Know what's below.
Call before you dig.**

(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

**CALL 2 WORKING
DAYS BEFORE YOU DIG
1-800-424-5555**

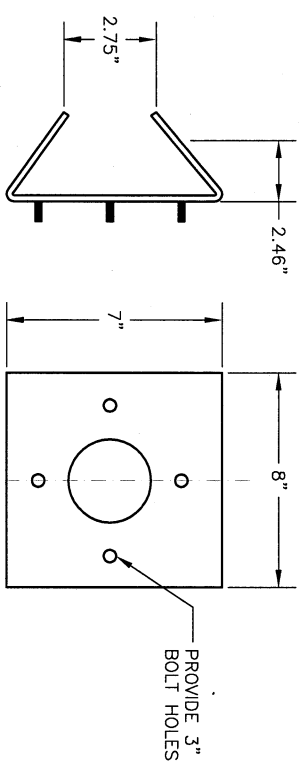
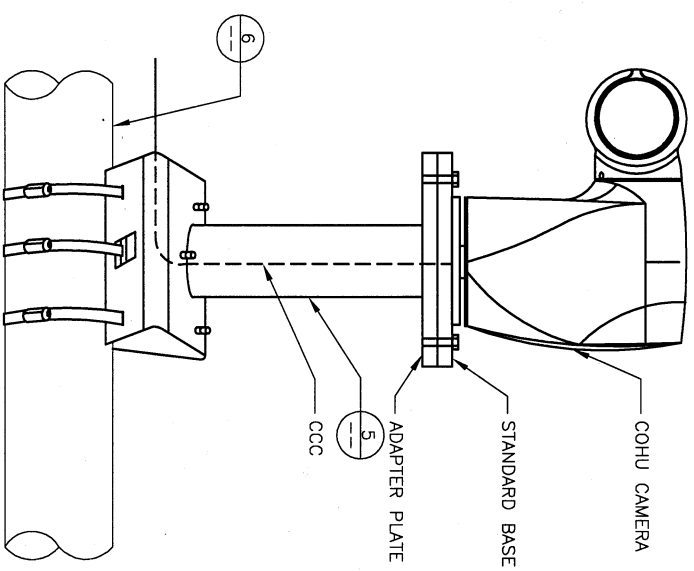


SHEET
28
OF
37
SHEETS

King County

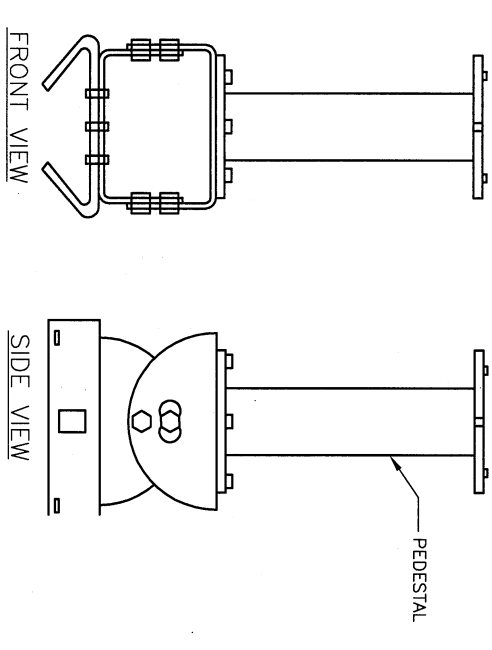


318-35 (28)

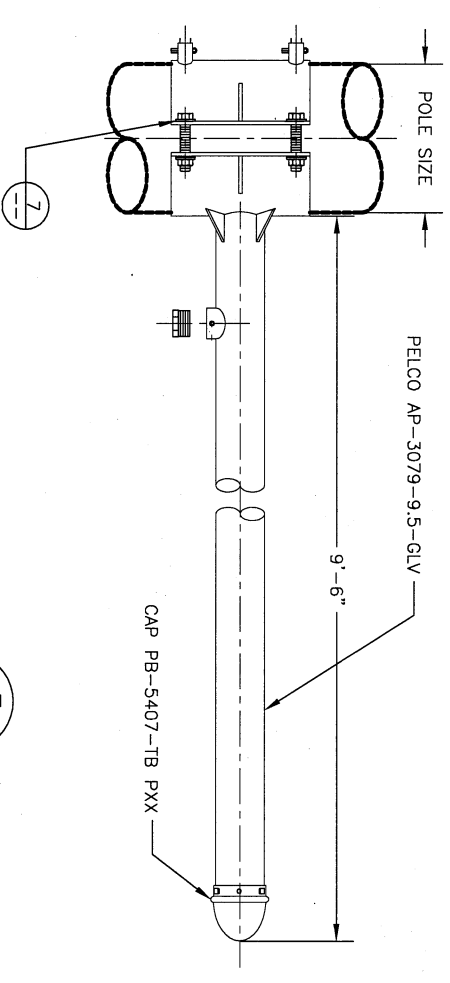
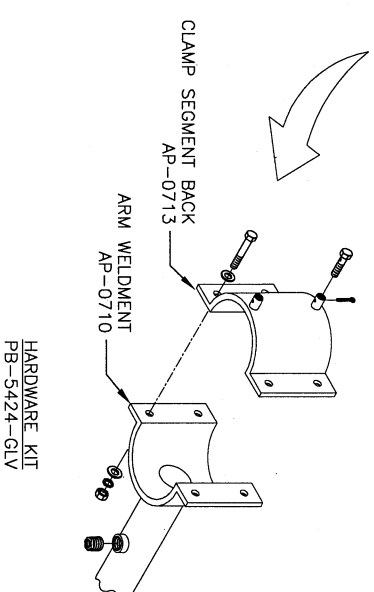
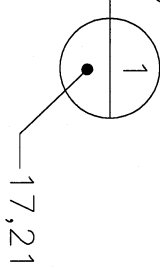


POLE MOUNT BRACKET (2)

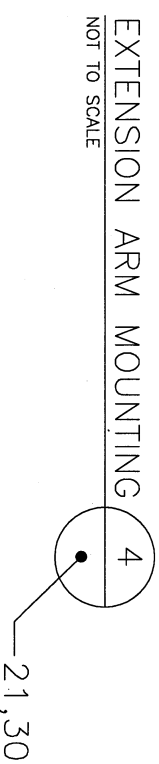
NOT TO SCALE



PEDESTAL ARM
NOT TO SCALE



EXTENSION ARM
NOT TO SCALE

[illegible]



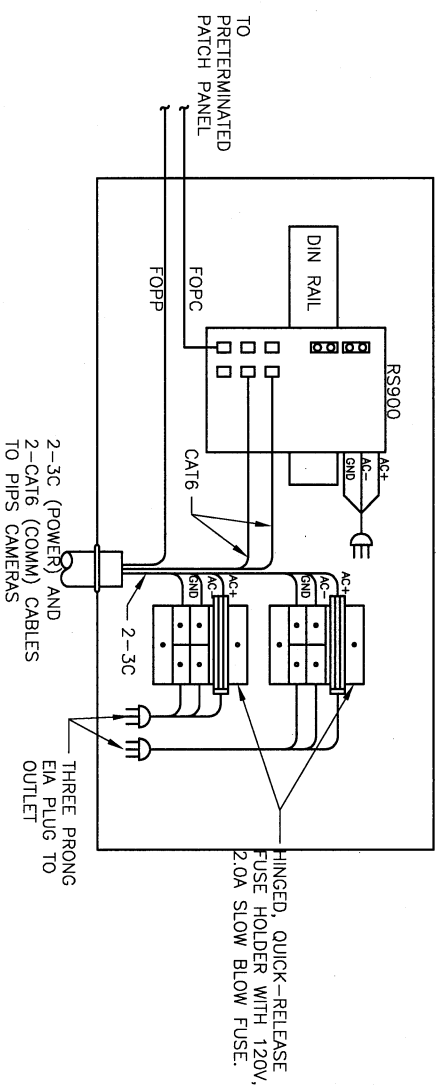
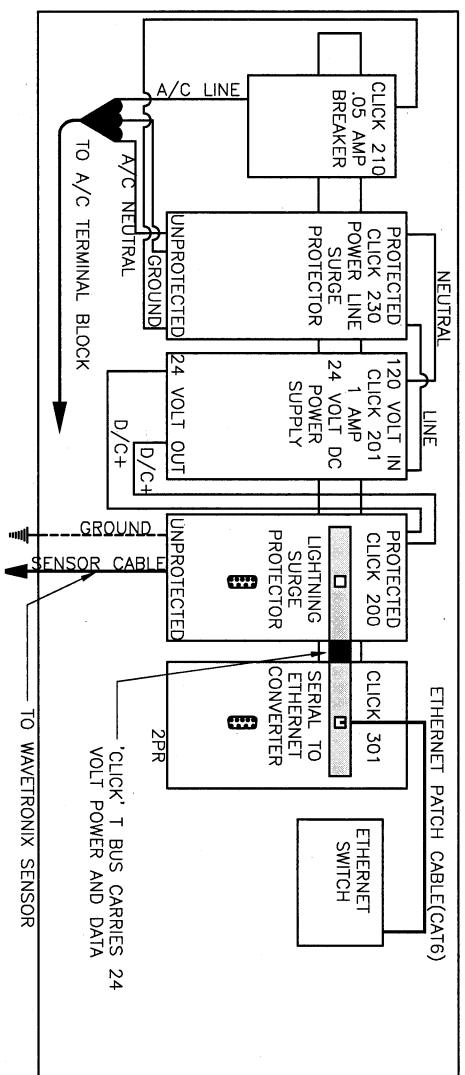
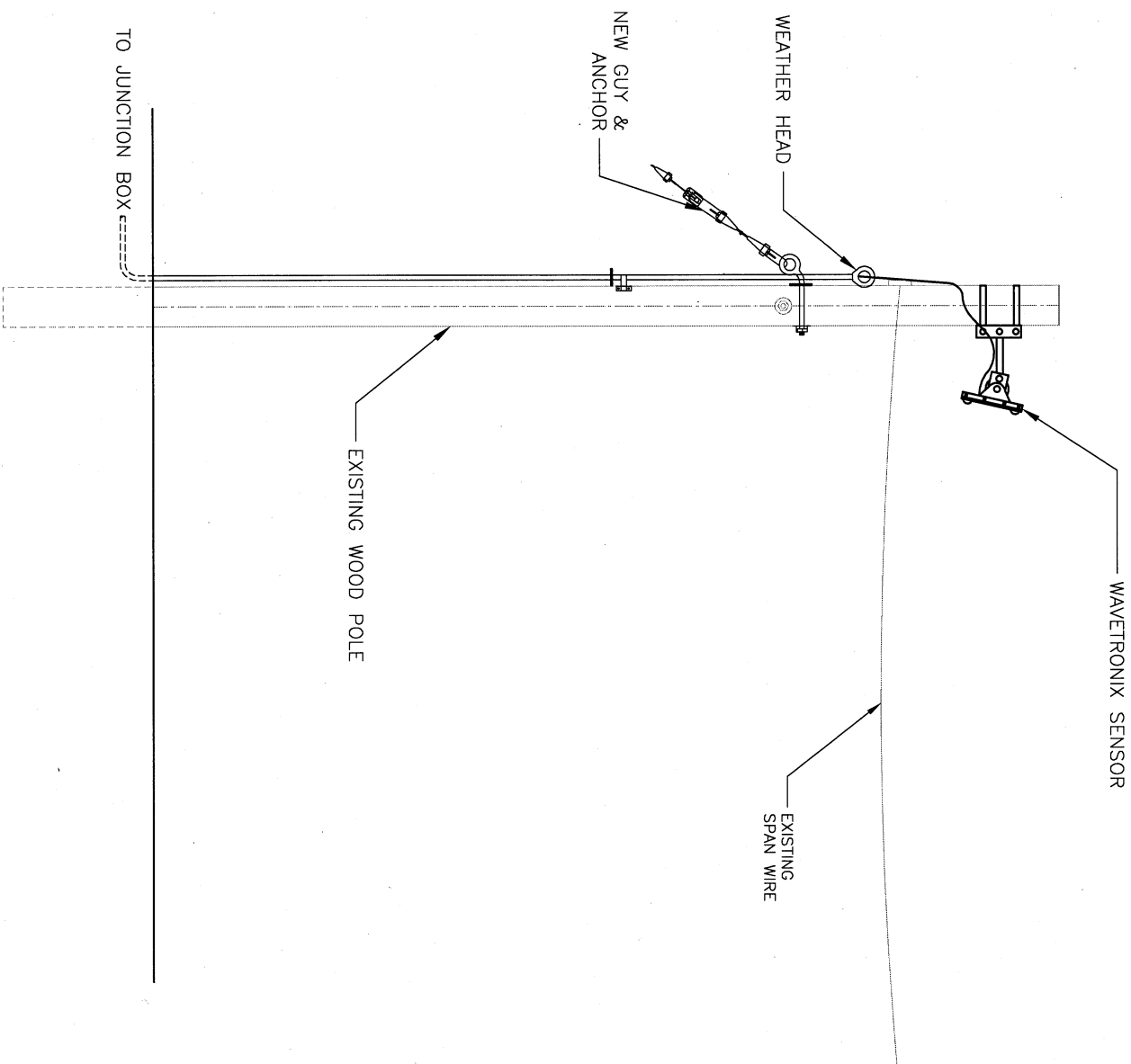
KING COUNTY DEPT. OF TRANSPORTATION
HAROLD TANGUCHI, DIRECTOR
AVONDALE ITS, PHASE II
(NE 132ND ST TO NE WOODINVILLE-DUVALL RD)

DETAIL - CCTV CAMERAS



Know what's below.
Call before you dig.

**CALL 2 WORKING
DAYS BEFORE YOU DIG
1-800-424-5555**



WAVETRONIX SITE DETAIL
ON EXISTING WOOD POLE - STATION 80+85, 25' LT.

1
11

PIPS WIRING IN CABINET

3
20

FIELD BOOK:	
SURVEYED:	
SURVEY BASE MAP:	
DESIGN ENTERED:	T. LEE 4/2013
DESIGNED:	J. HUH 4/2013
CHECKED:	A. MCGMANUS 4/2013
SUPERVISOR:	M.C. MITCHELL 4/2013
NUM.	
REVISION	
BY	
DATE	
FED. AID No.	CM-2085(005)
PROJECT No.	1115114
SURVEY No.	N/A
MAINTENANCE DIVISION No.	1



KING COUNTY DEPT. OF TRANSPORTATION
HAROLD TANGUCHI, DIRECTOR
AVONDALE ITS, PHASE II
(NE 132ND ST TO NE WOODINVILLE-DUVALL RD)
DETAIL - WAVETRONIX SITES AND MOUNTING

CALL 2 WORKING
DAYS BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)



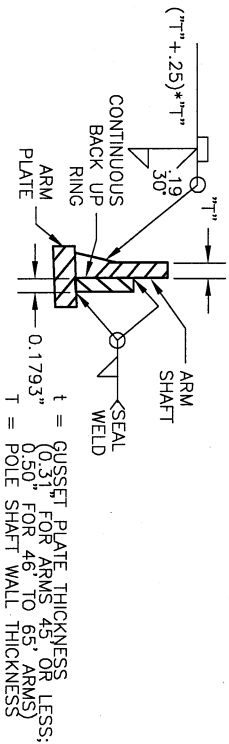
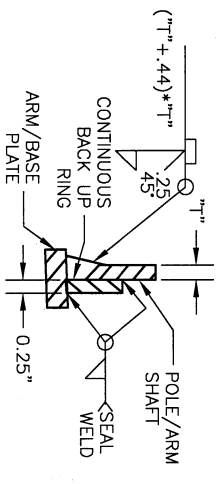
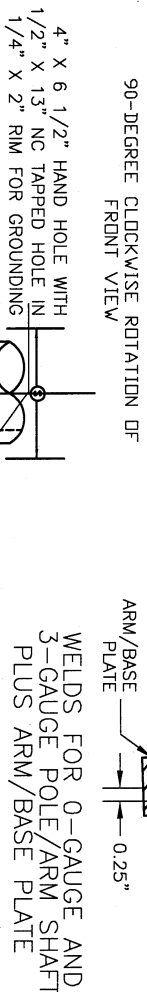
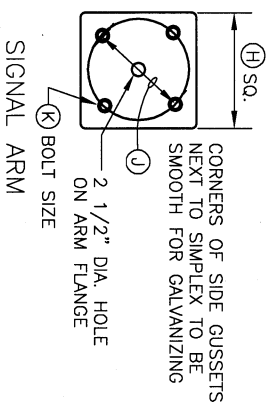
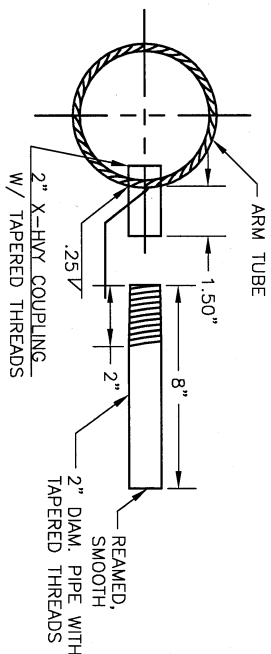
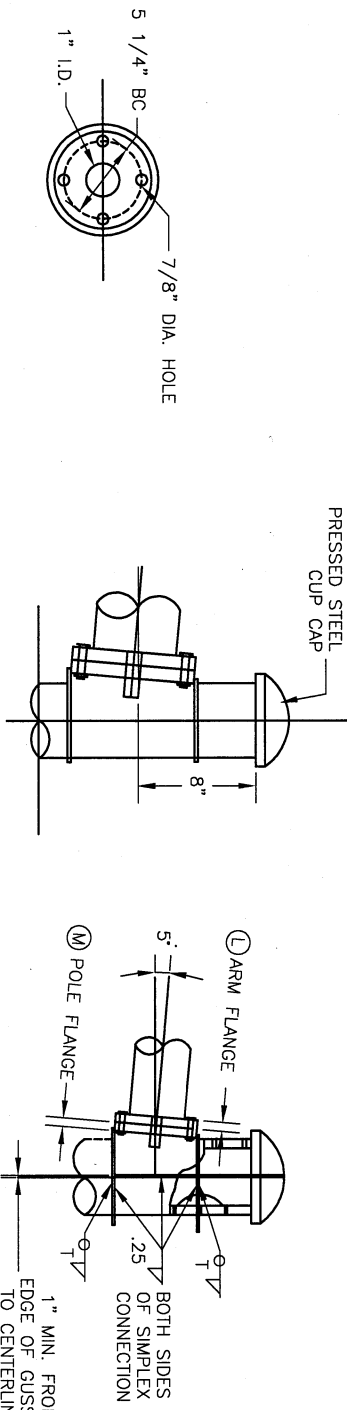
Know what's below.
Call before you dig.



SHEET 31
OF 37
SHEETS
King County
318-35 (31)

POLE NO		DIMENSIONS			WIND LOAD DIMENSIONS			APPROXIMATE INSTALLATION LOCATION		
NHT	A	B	X	Y	Z	XYZ				
1	23'	23'-8"	5'-3.25"	10'-1"	17'	1,020 ft ³	STATION 15+60, 17' NORTH OF FOGLINE			

POLE NO	POLE SIZE		MAST ARM		SIGNAL ARM CONNECTION					BOLT CIRCLE	PLATE	
NHT	O.D.	THICKNESS	F	O.D.	THICKNESS	H	J	K	L	M	N	S
1	18"	0.375"	22'	15"	0.375"	20"	20"	1.75"	X 4"	2"	2"	23"



ATTACHMENT DETAILS



POLE SPECIFICATIONS

- MATERIAL
PIPE: ASTM A-120
ANCHOR BOLT: F1554 GR55
BASE & FLANGES: ASTM A-36
BOLTS: STL TO STL CONNECTIONS A325
WELD: (ALL BUT WELDS TO BE GROUND FLUSH WITH BASE METAL)
LONGITUDINAL: BUTT WELD BY SUBMERGED ARC PROCESS OR
OR ELECTRICAL RESISTANCE METHOD
CIRCUMFERENTIAL: BUTT WELD WITH PERMANENT BACK UP RING.
FINISH: ASHTO M111 AND ASHTO M-232
4. SEE NOTE ON PLAN FOR LUMINAIRE DAVIT TOP REQUIREMENTS.

DESIGN CRITERIA

- 2009 ASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL STEEL
FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS-5TH EDITION
50 YEAR DESIGN LIFE/RECURRENCE INTERVAL
FATIGUE CATEGORY II
- TRUCK INDUCED FATIGUE INCLUDED
WIND VELOCITY: 90 MPH ISOTACH
2. WIND VELOCITY: 90 MPH ISOTACH

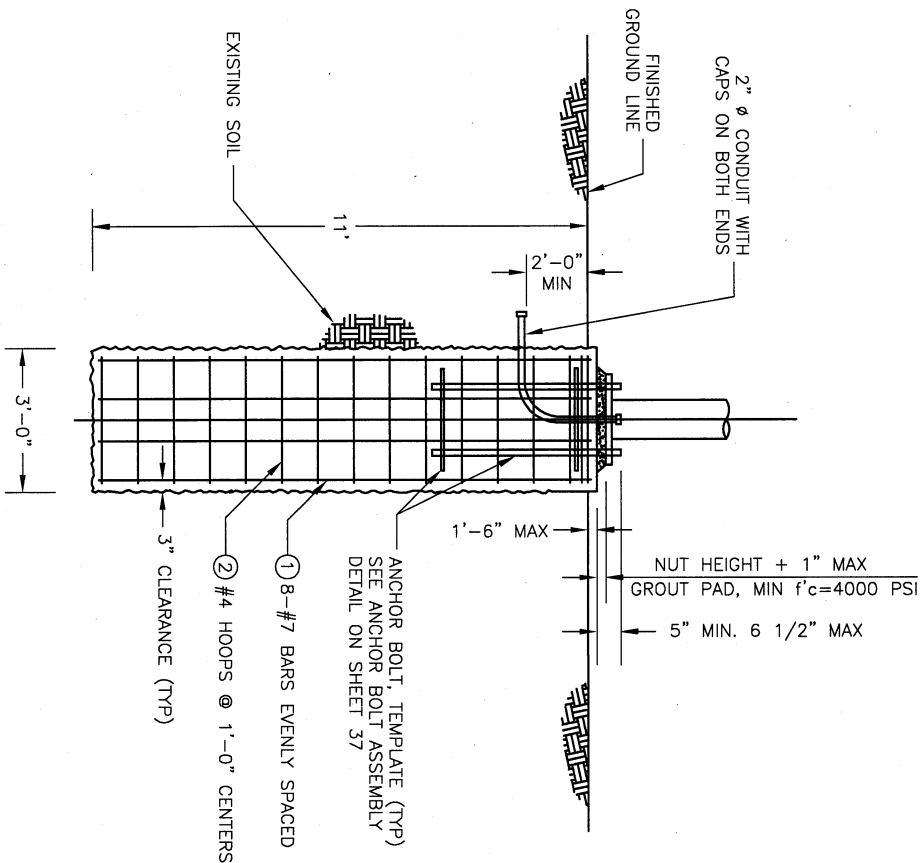
DMS - FRONT VIEW



CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5555

(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

FIELD BOOK:		FED. AID No.	CM-2085(005)		KING COUNTY DEPT. OF TRANSPORTATION HAROLD TANGUCHI, DIRECTOR AVONDALE ITS, PHASE II (NE 132ND ST TO NE WOODINVILLE-DUYALL RD) DETAIL - DYNAMIC MESSAGE SIGN		SHEET 32 OF 37 318-35 (32)
SURVEYED:		PROJECT No.	1115114				
SURVEY BASE MAP:	T. LEE 4/2013	SURVEY No.	N/A				
DESIGN ENTERED:	J. HUH 4/2013						
DESIGNED:	A. MCMANUS 4/2013						
CHECKED:	M.C. MITCHELL 4/2013	MAINTENANCE DIVISION No.	1				
SUPERVISOR:	N.M.						



FOUNDATION REINFORCEMENT DETAIL

1
22

GENERAL NOTES:

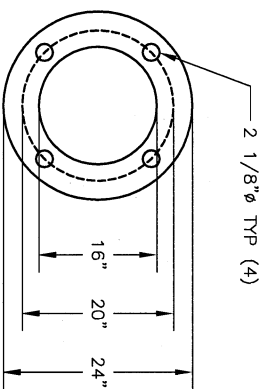
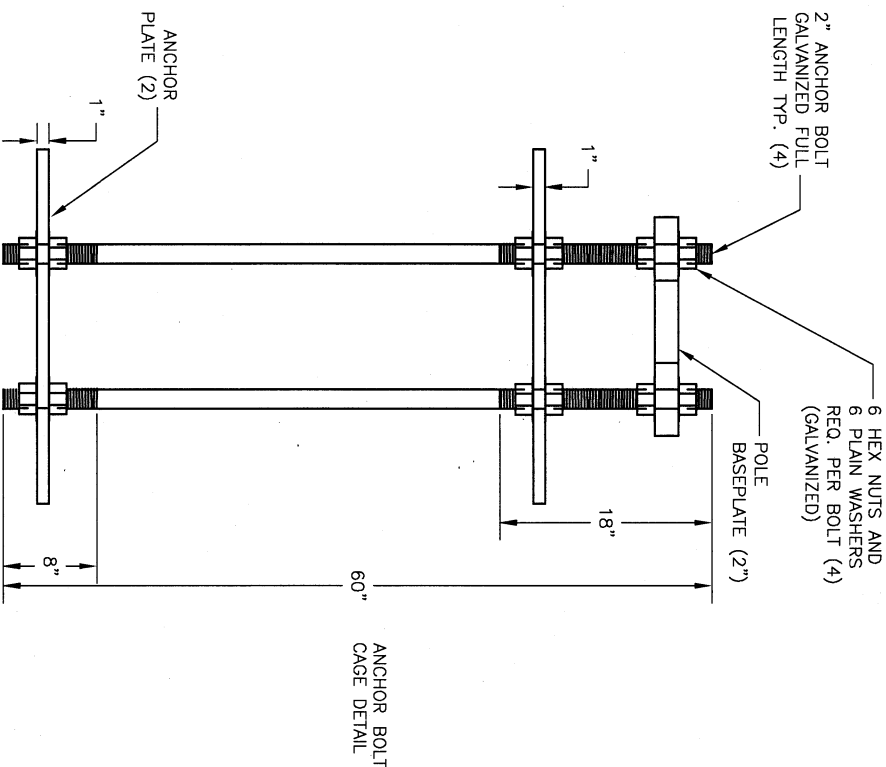
1. THIS FOUNDATION IS DESIGNED BASED ON 2500 PSF ALLOWABLE LATERAL BEARING PRESSURE FOR THE SOIL.
2. THIS FOUNDATION IS DESIGNED FOR INSTALLATION ON LEVEL GROUND, OR ON SLOPING GROUND NOT TO EXCEED 2:1 SLOPES. THE DEPTH OF THE FOUNDATION INCLUDES THE DEPTH OF ADJACENT THREE FEET DEEP ROAD DITCH.
3. MATERIALS:
FOUNDATION CONCRETE: $f'_c=4000$ PSI MIN.
STEEL REINFORCING REBAR SHALL CONFORM TO AASHTO M31, $F_y=60$ KSI DEFORMED TYPE.
4. THE FOUNDATION AND DETAILS ARE ONLY APPLICABLE TO THIS PROJECT SITE SOILS AND SLOPE CONDITIONS WITH SIGN STRUCTURE THAT HAS MAXIMUM 24 FEET HIGH POLE, 23 FEET LONG ARM, WITH 450 LBS DISPLAY.

DESIGN CRITERIA:
2009 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES AND TRAFFIC SIGNALS WITH 5TH EDITION.

WIND VELOCITY: 90 MPH

BAR LIST					
MARK	LOCATION	QUANTITY	LENGTH	SIZE	TYPE
①	VERTICAL	8	10'-6"	#7	STRAIGHT
②	HOR. HOOP	13	10'-8"	#4	CIRCLE

FOUNDATION		
NHR	DEPTH	TYPE
①	11'	3' ROUND



ALL DETAILS NOT TO SCALE

FIELD BOOK:	
SURVEYED:	
SURVEY BASE MAP:	T. LEE 4/2013
DESIGN ENTERED:	J. HUH 4/2013
DESIGNED:	Z. ZHOU 4/2013
CHECKED:	S. JIANG 4/2013
SUPERVISOR:	NLM

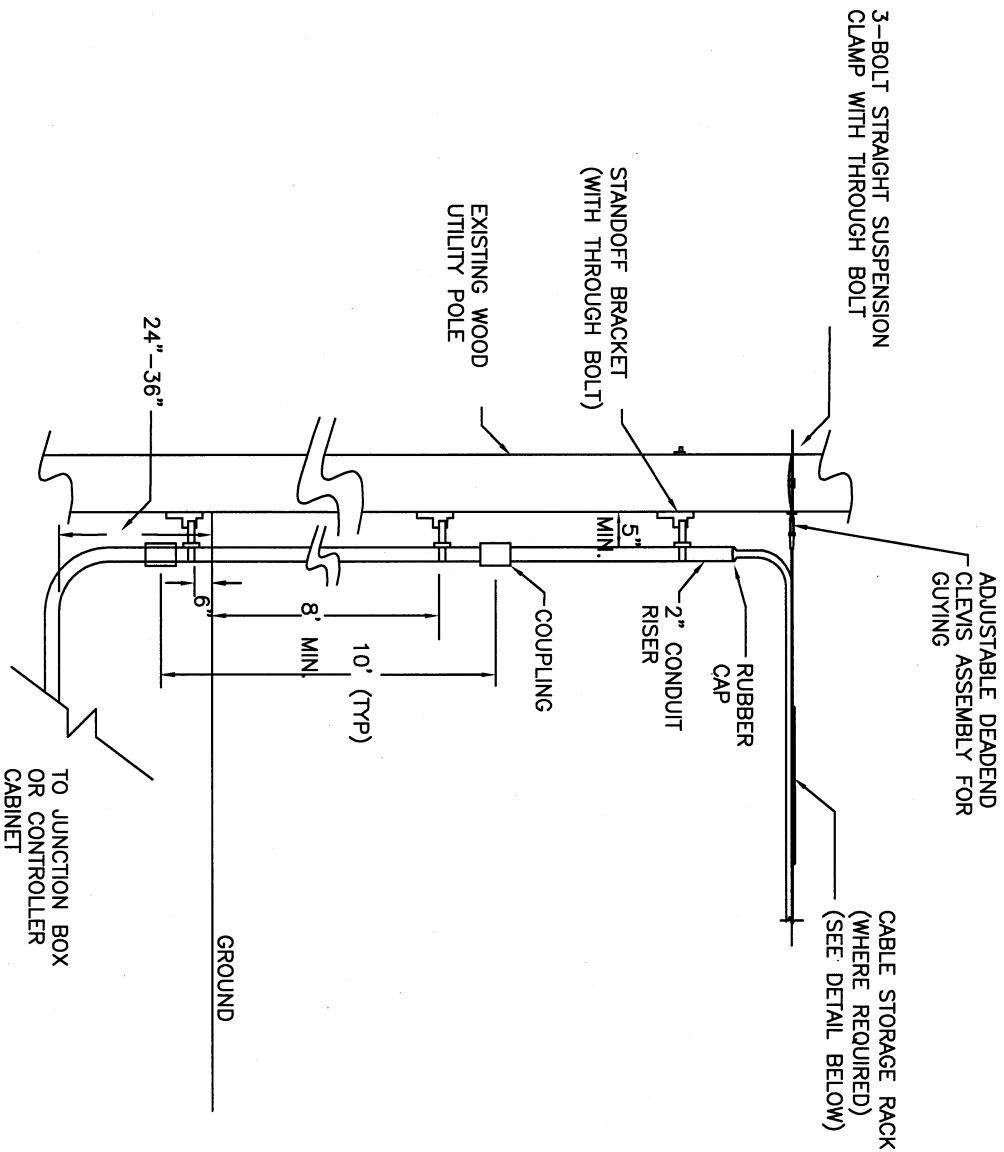
BR	DATE

FED. AID No.	CM-2085(005)
PROJECT No.	1115114
SURVEY No.	N/A
MAINTENANCE DIVISION No.	1

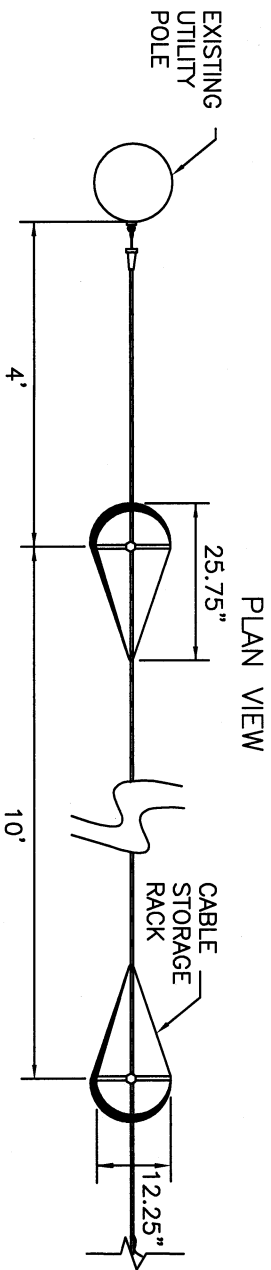


KING COUNTY DEPT. OF TRANSPORTATION
HAROLD TANIGUCHI, DIRECTOR
AVONDALE ITS, PHASE II
(NE 132ND ST TO NE WOODVILL-DUVALL RD)
DETAIL - DYNAMIC MESSAGE SIGN

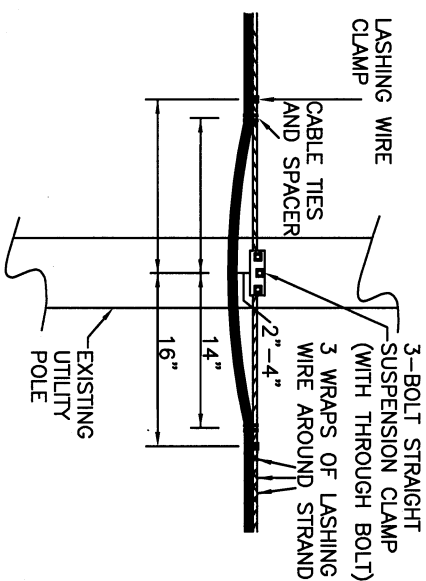
811
Know what's below.
Call before you dig.
CALL 2 WORKING
DAYS BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)



RISER DETAIL
NOT TO SCALE



CABLE STORAGE
RACK DETAIL
NOT TO SCALE



FIBER OPTIC
ATTACHMENT DETAIL
NOT TO SCALE

FIELD BOOK:	
SURVEYED:	
SURVEY BASE MAP:	T. LEE 4/2013
DESIGN ENTERED:	J. HUH 4/2013
DESIGNED:	A. MCMANUS 3/4/2013
CHECKED:	M.C. MITCHELL 4/2013
SUPERVISOR:	NUM.

FED. AID No.	CM-2085(005)
PROJECT No.	1115114
SURVEY No.	N/A
MAINTENANCE DIVISION No.	1



KING COUNTY DEPT. OF TRANSPORTATION
HAROLD TANGUCHI, DIRECTOR
AVONDALE ITS, PHASE II
(NE 132ND ST TO NE WOODINVILLE-DUYALL RD)
DETAIL - CABLE INSTALLATION



CALL 2 WORKING
DAYS BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

